

DLL3 mRNA Expression using Whole Transcriptome Analysis

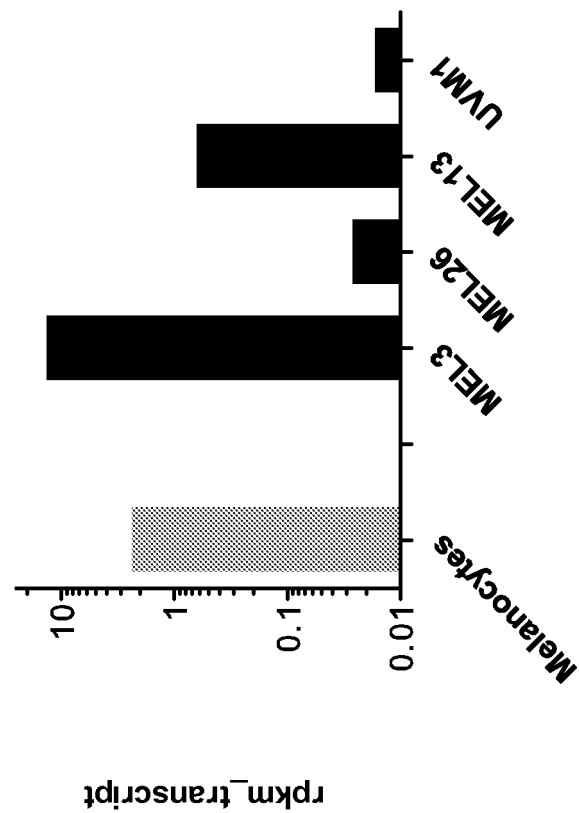
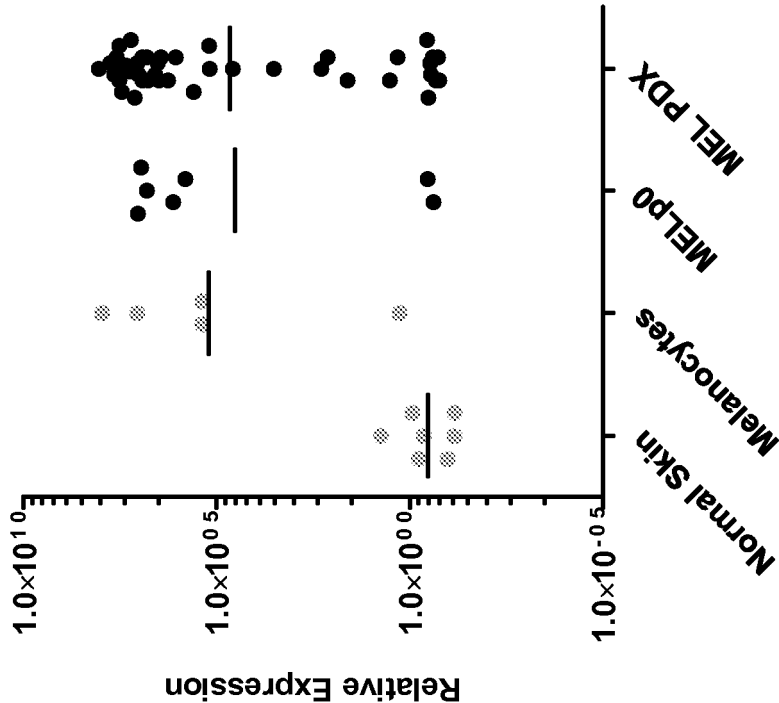


FIG. 1

DLL3 mRNA Expression using qRT-PCR



DLL3 mRNA Expression using Microarray

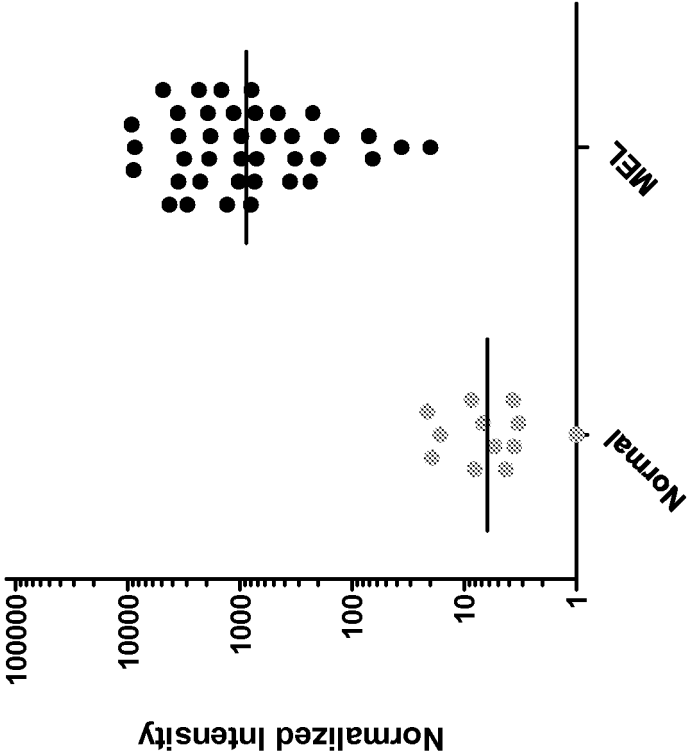


FIG. 3

Expression of DLL3 mRNA in a Subset of Tumors from The Cancer Genome Atlas

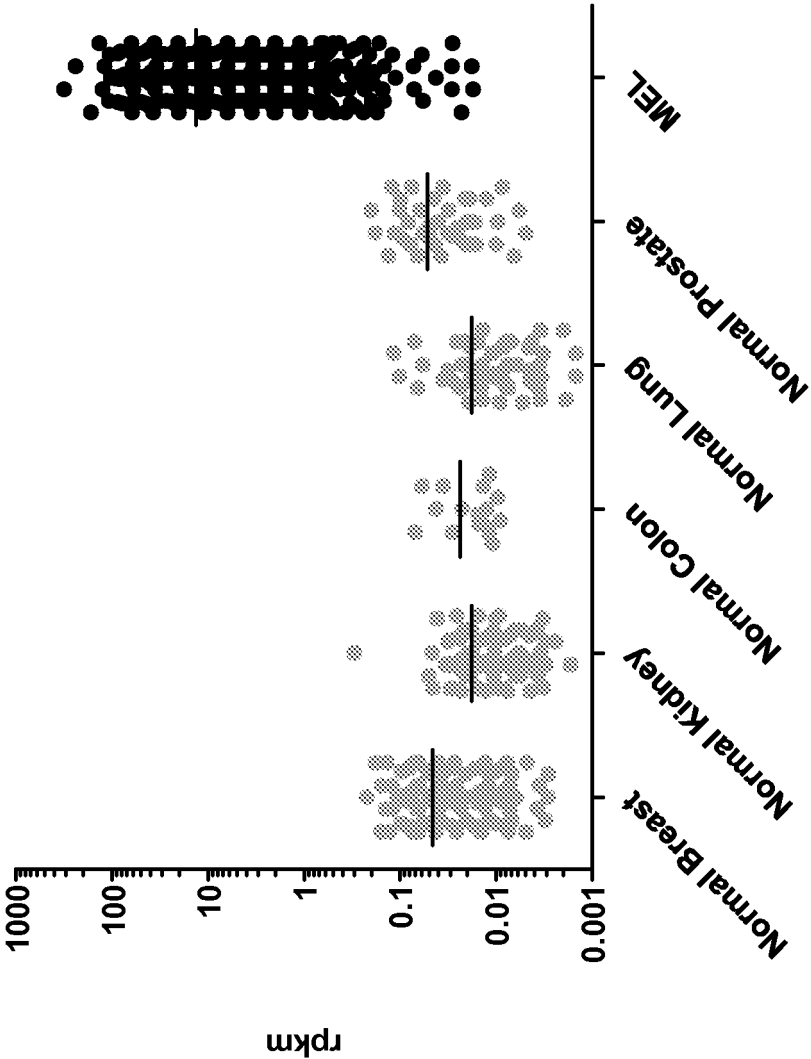


FIG. 4A

Correlation of DLL3 mRNA Expression with Patient Survival in Tumors from The Cancer Genome Atlas

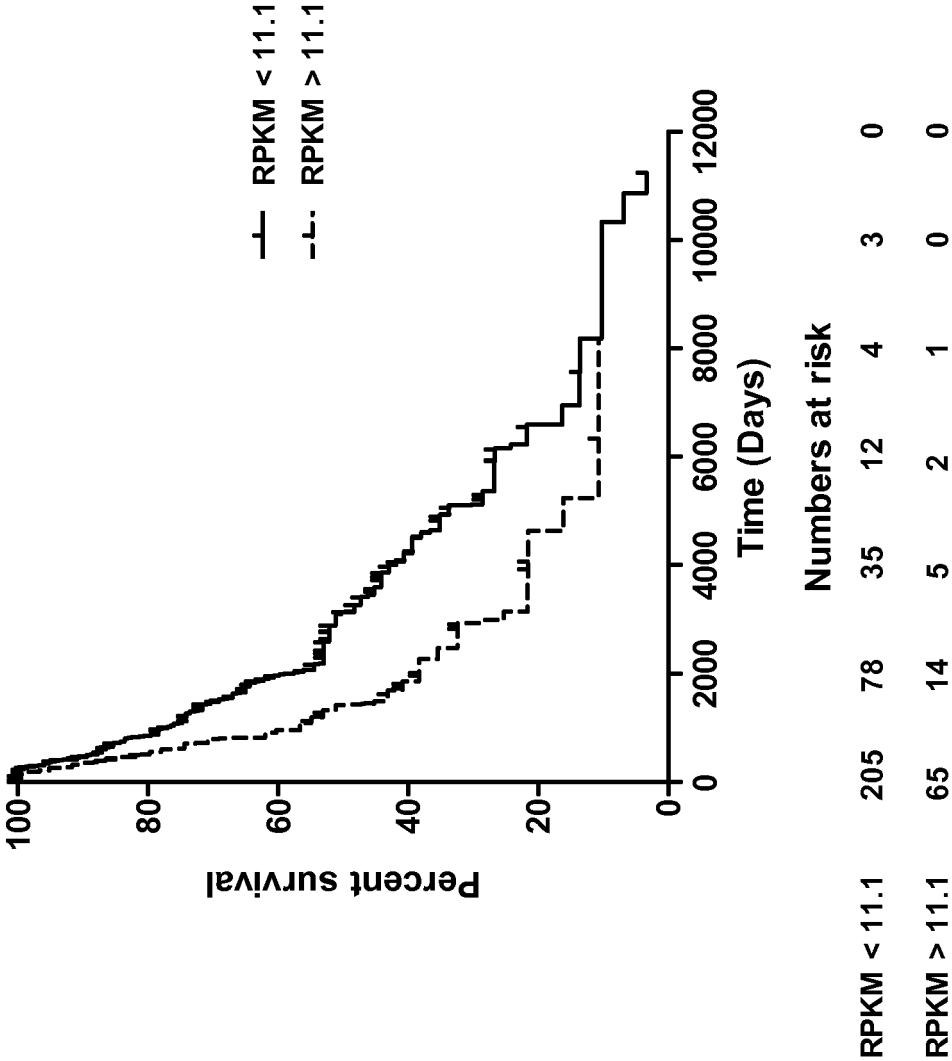


FIG. 4B

Correlation of DLL3 mRNA Expression with Patient Survival in Tumors from The Cancer Genome Atlas

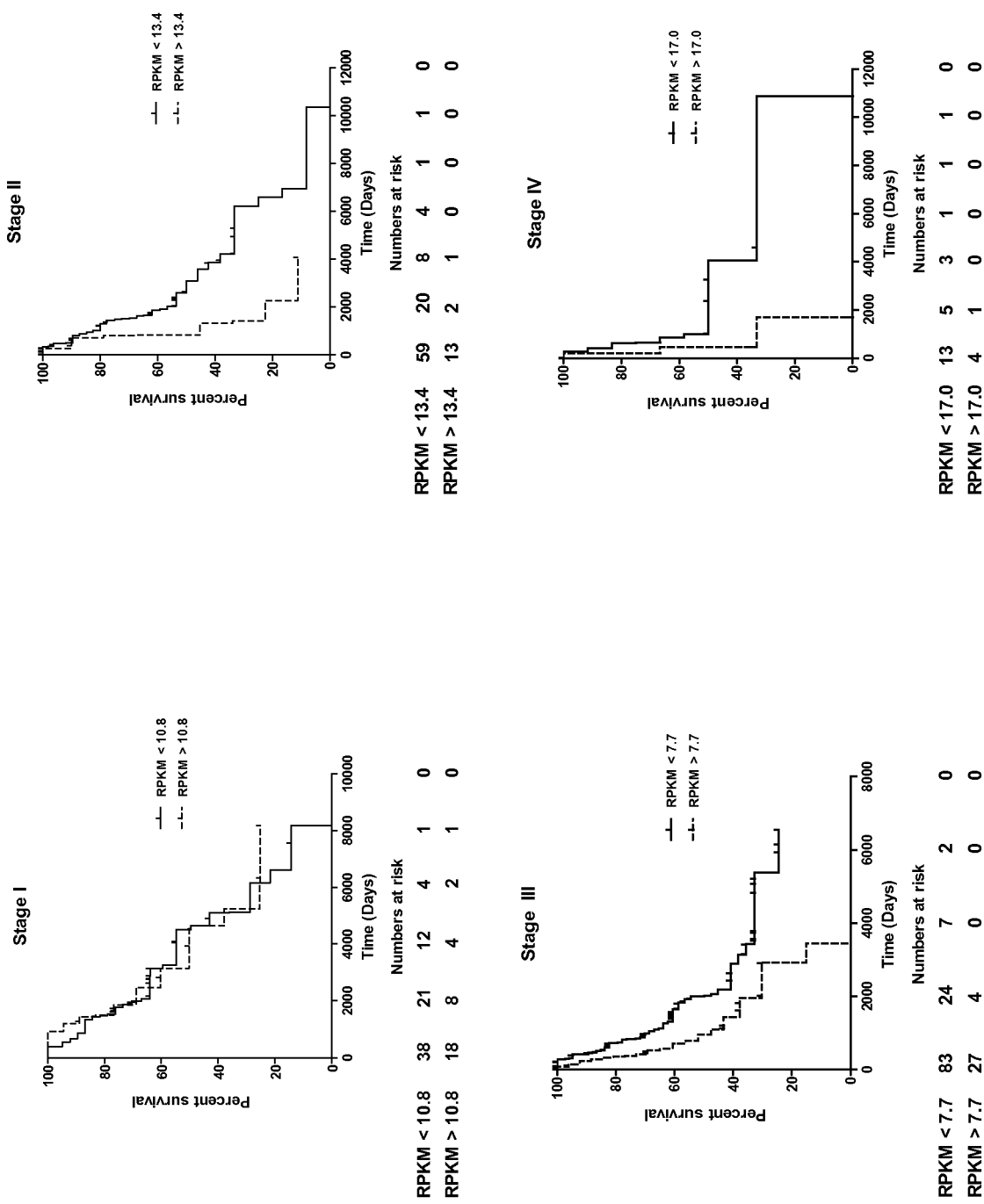


FIG. 4C

Binding Characteristics of Anti-DLL3 Antibodies

Clone	Bin	Domain	Affinity (nM)
SC16.4	F	EGF4	0.5 ^F
SC16.8	A	EGF5	0.5 ^F
SC16.10	E	EGF2	4.0 ^F
SC16.13	B	EGF2	2.0 ^B
SC16.15	G	N-terminal	0.5 ^B
SC16.25	C	N-terminal	0.2 ^B
SC16.34	D	DSL	0.2 ^B
SC16.39	I	EGF6	1.0 ^F
SC16.46	A	EGF1	0.5 ^F
SC16.51	H	N-terminal	2.0 ^F
SC16.56	D	DSL	1.0 ^B
SC16.65	B	EGF2	0.9 ^B
SC16.67	D	EGF3	0.5 ^F

^B Biacore; ^F ForteBio

FIG. 5

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.3	QIVLTQSPAIMSVSLGERVTMTCTC	TASSSVSSSYLH	WYQQKPGSSPKLWIY	STSNLAS	GVPARFSGSGSGTSYFTTISMEAEADAATYYC	HQYHRSPFT	FGAGTKLIR	21
SC16.4	DIQMTQTTSLSASLGDRVTISCTC	RASQDINSYLN	WYQQKPDGTVKLLIY	YTSRLHS	GVPSPRFGSGSGTDYSLTISNLEIEDIATYFC	QQGDMPLPWT	FGGGTKLEIK	25
SC16.5	QIVLTQSPAIMSASPGEKVTMTCTC	SASSSVSYMH	WYQQKSGTSPKRWIY	DTSKLAS	GVPARFSGSGSGTYSYSLTISMEAEADAATYYC	QQWTRNPLT	FGAGTKLEIK	29
SC16.7	NIMMTQSPSSLAVSAGEKVTMTSC	KSSQSVLYSSNQKNYLA	WYQQKPGQSPKLLIY	WASTRES	GVPDRFTGSGSGTDFTLTISTVQVEDLAVYYC	HQYLSSWT	FGGGTKLEIK	33
SC16.8	EQMTQSPSSMSASLGDRITITCTC	QATQDIVKNLN	WYQQKPGKPPSELIY	YAIELAE	GVPSPRFGSGSGSDYSLTISNLESEDFADYYC	LQFYEPFT	FGAGTKLEIK	37
SC16.10	QIVLTQSPAIMSASLGERTVTMTCTC	TASSSVSSSYLH	WYQQKPGSSPKLWIY	STSNLAS	GVPTRFSGSGSGTYSYSLTISMEAEADAATYYC	HQYHRSPFT	FGSGTKLEIK	41
SC16.11	DVEMTQTPLTILSVTIGQPASISCTC	KSSQSISDSGDKTYLN	WMFQRPGRSPKRLIY	LVSKLDS	GVPDRFTGSGSGTDFTLTKISRVEAEDLGYYC	WQGHFHPWT	FGGGTKLEIK	45
SC16.13	QIVLTQSPALVSASPGEKVTMTCTC	SASSSVSYMY	WYQQKPRSSPKWIY	LTSNLAS	GVPARFSGSGSGTYSYSLTISMEAEADAATYYC	QQWRSNPFT	FGSGTKLEIK	49
SC16.15	DIQMTQSPASLAASVGETVAITCTC	RASENIYNYLA	WYQQKQKSPQLLIY	TANSLED	GVPSPRFGSGSGTQYSLKINSMQPEDSATYFC	KQAYDVPPT	FGGGTKLEIK	53
SC16.18	DIQMTQTTSLSASLGDRVTISCTC	RASQNIINYLN	WYQQKPDGTVKLLIY	YTSRLHS	GVPSPRFGSGSGTDYSLTISNLEPEDIATYYC	QQYSERPYT	FGGGTKLEIK	57
SC16.19	DIQMTQSPSSLSASLGKGVTFCTC	KASQDIHKYVA	WYQHKGKGPRLIY	YTSTLQP	GISRFGSGSGGRDYSFISINLEPEDIATYYC	LQYNLYT	FGGGTKLEIK	61
SC16.20	EQMTQSPSSMSASLGDRITITCTC	QATQDIVKNLN	WYQQKPGKPPSELIY	YATELAE	GVPSPRFGSGSGDYSLTIRNLESEDFADHYC	LQFYEPFT	FGAGTKLEIK	65
SC16.21	DVMTQSPSSLAMSVGQKVTMTSC	KSSQSLLNSSNQKNYLA	WYQQEPGQSPKLLVS	FASTRES	GVPDRFTGSGSGTDFTLTISGVQAEADLAVYYC	QQHYSIPLT	FGAGTKLEIK	69
SC16.22	DIQMTQTTSLSASLGDRVTISCTC	RASQDIKNYLN	WYQQKPDGTVKPLIY	YTSRVHS	GVPSPRFGSGSGTDYSLTISNLEQEDIATYFC	QQGYTLPT	FGSGTKLEIK	73
SC16.23	QIVLTQSPAIMSASPGEKVTLTCTC	SASSSVSSRYLY	WYQQKPGSSPKLWIY	STSNLAS	GVPARFSGSGSGTYSYSLIISMEAEADAATYYC	HQWVSNYPLT	FGAGTKLEIK	77
SC16.25	QIVLTQSPAIMSASPGEKVTMTCTC	SASSSVSYMH	WYQQKSGTSPKRWIY	DSSKLAS	GVPARFSGSGSGTYSYSLTISMEAEADAATYYC	QQWSSNPLT	FGAGTKLEIK	81
SC16.26	DVEMTQTPLTILSVTIGQPASISCTC	KSSQSISDSGDKTYLN	WMFQRPGRSPKRLIY	LVSKLDS	GVPDRFTGSGSGTDFTLTKISRVEAEDLGYYC	WQGHFHPWT	FGGGTKLEIK	85
SC16.29	QIVLTQSPAIMSASPGEKVTITCTC	SASSSVSYMH	WFQQKPGTSPKLIY	TTSNLAS	GVPARFSGSGSGTYSYSLTVSRMEAEADAATYYC	QQRSLYPYT	FGGGTKVEIK	89
SC16.30	QIVLTQSPITMSASLGERTVTMTCTC	TASSSVTSSYLH	WYQQKPGSSPKLWIY	STSNLAS	GVPARFSGSGSGTYSYSLTISMEAEADAATYYC	HQFHRSPFT	FGSGTKLEIK	93
SC16.31	DIVLTQSPSLPVPNIQDQASISCTC	KSTKSLNSDGFYLD	WYLRQPGQSPQLIY	LVSNRFS	GVPDRFSGSGSGTDFTLTKISRVEAEDLGYYC	FGSNLYPLT	FGAGTKLELR	97

FIG. 6A

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.34	SIVMTQTPKLLVSAGDRVITTC	KASQSVNDVA	WYQKPQGSPKLLIY	YASNRYS	GVPDRFTGSGYGTDFTFITSTVQAEDLAVYFC	QQDYSSPWT	FGGGTKLEIK	101
SC16.35	DIQMTQTSSLSASLGDRTVISC	RASQDSINYLN	WYQKPDGTVKLLIY	YTSRLHS	GVPDRFSGSGGSDYSLTISNLEQEDIATYFC	QQGNLTPYT	FGGGTKLEIK	105
SC16.36	ETTVTQSPASLSVTGKVTIRC	ITPDDDDMN	WYQKPGEPNLLIS	EGNSLRP	GVPDRFSSSGYGTFNFTIENTILSEDVADYYC	LOSDNMPFT	FGSGTKLEIK	109
SC16.38	QIVLTQSPAIMSASPGEKVTMTIC	SASSSINYMH	WYQKPGTSPKRWIY	DTSKLAS	GVPARFSGSGGTSYSLTISSMEAEADAATYYC	HQRSTWT	FGGGTKLEIK	113
SC16.41	DIQMTQTSSLSASLGDRTVISC	RASQDVINYLN	WYQKPDGTVKLLIY	YTSRLHS	GVPDRFSGSGRTDYSLTISNLEPEDIATYYC	QQYSERPVT	FGGGTKLEIK	117
SC16.42	DVLTQSPSLSLVSLGDAQSISC	RSSQNVHSRDYTYLE	WYLQKPGQSPKLLIY	GVSNRFS	GVPDRFSGSGGTDFTLKISRVEAEDMGMYYC	FQGHVTPYT	FGGGTKLEIK	121
SC16.45	EIQMTQSPSSMSASLGDRITTC	QATQDIVKNLN	WYQKPGKPPSELIY	YATELAE	GVPARFSGSGGSDYSLTISNLESEDFADYHC	LQYEFEPFT	FGAGTKLEIK	125
SC16.47	DVVLTSQSPSLSPVNIQDAQSISC	KSTKLLNSDQGTLYLD	WYLQRPQGSPQELIY	LVSNRFS	GVPDRFSGSGGTDFTLKISRVEAEDLGYYC	FQSNYLPIT	FGAGTKLELR	129
SC16.49	DIKMTQSPSSMYASLGERVTITC	KASQDINSYLS	WFOQKPGKSPKTIY	RANRLVD	GVPDRFSGSGGSDYSLTISNLESEDFADYFC	LQYDEFPLT	FGAGTKLEIK	133
SC16.50	DIQMTQTSSLSASLGDRTVISC	RASQDSINYLN	WYQKPDGTVKLLIY	YTSRLHS	GVPDRFSGSGGSDYSLTISNLEQEDIATYFC	QQGNLRT	FGGGTKLEIK	137
SC16.52	DIQIQSPSSMFASLGDRTVSLSC	RASQGIQGTLD	WYQKPNGTIKLIY	STSNLNS	GVPDRFSGSGGSDYSLTISNLESEDFADYFC	LQRNAYPLT	FGAGTKLEIK	141
SC16.55	DIKMTQSPSSMYASLGERVTITC	KASQDINSYLN	WFOQKPGKSPKTIY	RANRLVD	GVPDRFSGSGGSDYSLTISNLESEDFADYFC	LQYDEFYPT	FGGGTKLEIK	145
SC16.56	SIVMTQTPKLLVSAGDRVITTC	KASQSVNDVV	WYQKPGQSPKLLIY	YASNRVT	GVPDRFASGSGYGTDFSTFTSTVQAEDLAVYFC	QQDYTSPWT	FGGGTKLEIR	149
SC16.57	DIVMTQSHKFMISIVGDRVSITC	KASQDVSEVA	WYQKPGQSPKLLIY	SASYRYT	GVPDRFTGSGGSDYSLTISNLEQEDIATYFC	QQHYGTPFT	FGSGTKLKIR	153
SC16.58	DIQMTQSPASLSSSVGEIVTITC	RASENIYSYLA	WYQKQKGSQPLLVIY	NAKTLAE	GVPDRFSGSGGTDFTLKINSIQPEDFGTYC	QHHYDSPLT	FGAGTKLELR	157
SC16.61	DIVMTQSTSSLAMSVGQKVTMSC	KSSQSLNNSNQKNYLA	WYQKEPGQSPKLLVS	FASTRES	GVPDRFTGSGGTDFTLTISGVAEDLAVYFC	QQHYSIPT	FGAGTKLEIK	161
SC16.62	DIKMTQSPSSMYASLGERVTITC	KASQDINSFSL	WFOKPGKSPKTIY	RANRLVD	GVPDRFTGSGGQEFSLTISNLEQEDIATYFC	LQYDEFYPT	FGGGTKLEIK	165
SC16.63	QIVLTQSPAIMSASPGEKVTMTIC	SASSSVSYMY	WYQKSGTSPKRWIY	DTSKLAS	GVPDRFSGSGGTSYSLTISSMEAEADAATYYC	QQWSSNPYT	FGGGTKLEIK	169
SC16.65	QIVLTQSPALMSASPGEKVTMTIC	SVTSSVSVMY	WYQKPRSGPKPWIY	LTSNLAS	GVPDRFSGSGGTSYSLTISSVEAEADAATYYC	QQWRNPPFT	FGSGTKVEIK	173
SC16.67	QAVVTOESALITSPGETVTLTC	RSSTGAVTTSNYAN	WIEKPDHLFTGLIG	GTNNRAP	GVPDRFSGSLIGDKAALTTGAQTEDEAYFC	GLWYSNHLV	FGGGTKLTVL	177
SC16.68	ETTVTQSPAFLSVATGKVTIRC	ITSTDDDDMN	WYQKPGEPNVLIS	EGNTRLP	GVPDRFSSSGYGTDFVFTIENTILSEDVADYYC	LOSDNMPIT	FGAGTKLEIK	181
SC16.72	ENVLTQSPAIMSASLGEKVTMSC	RASSSVNYMS	WYQKSDASPKLIY	YTSNLP	GVPDRFSGSGGNSYSLTISSMEGEDAATYYC	QQFTSSPYT	FGGGTKLEIK	185

FIG. 6A cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.73	DIQMTQSPSSLSASLGERSVLTCTC	RASQDIGSYLN	WLQEEPDGKTKRLIY	ATSSLDS	GVPKRFSGRSGSDYSYLTSSLESEDFVDYYC	LQYASSPWT	FGGGTKLEIK	189
SC16.78	DIKMTQSPSSMYASLGERTTTC	KASQDINSYLS	WFOQKPGRSPKTLIY	RANRLVD	GVPSRFSGSGGQDYSLTSSLDYEDMGYYC	LQYDEFPFT	FGSGTKLEIK	193
SC16.79	DIVMSQSPSSLAVSAGEKVTMSC	KSSQSLLNSRTRKNYLA	WYQOKPGQSPKLLIY	WASTRES	GVPRDFTGSGGTDFTLTSSVQAEDLAVYYC	KQSYNLYT	FGGGTKLKIK	197
SC16.80	ETTVTQSPASLSMAIGEKVTIRC	ITSTDIDDDMI	WYQOKPGEPKLLIS	EGNLRP	GVPSRFSSSGYGTDFTFTIENMLSEDVADYYC	LKRDDLPLYT	FGGGTQVEIK	201
SC16.81	QIVLTQSPAIMSASLGERTVLTCTC	TASSSVSSSYLH	WYQOKPGSSPKLWIY	STSNLAS	GVPTRFSGSGGTSYSLRISSEAEADAATYYC	HQYNRSPLT	FGAGTKLELK	205
SC16.84	DIQMTQSPSSLSASLGKVTITC	KASQDKKIYA	WYQHKPGKGPRLLIH	YTSLEP	GIPSRFSGSGGRDYSFISINLEPEDATYYC	LQYDILWT	FGGGTKLEIK	209
SC16.88	ENVLTQSPAIMAASLGQKVTMTC	SASSSVSSSYLH	WYQOKSGASPKPLIH	RTSNLAS	GVPARFSGSGGTSYSLTSSVVEAEDDATYYC	ROWSGYPWT	FGGGTKLEIK	213
SC16.101	QIVLTQSPAIMSASLGERTVMTCTC	TASSSVSSSYLH	WYQOKPGSSPKLWIY	STSNLAS	GVPARFSGSGGTSYSLTSSNVEAEDAATYYC	HQYHRSPT	FGSGTKLEIK	217
SC16.103	DIVLTQSPASLAVSLGQRATISC	RASKSVSTSGVSYMH	WYQOKPGQPPKLLIY	LASNLES	GVPARFSGSGGTDFTLNIHPVEEEDAATYYC	QHSRELPLT	FGAGTKLELK	221
SC16.104	QIVLSQSPAILSASPGEKVTMTCTC	RASSSVSYIH	WYRQKPGSSPKPWIY	ATSNLAS	GVPARFSGSGGTSYSLTISRVEAEDAATYYC	QQWSSNPPT	FGAGTKLELK	225
SC16.105	DIVMTQSHKFMSTSVGDRVSITC	KASQDVGTAVA	WYQOKPGQSPKLLIY	WASIRHT	GVPRDFTGSGGTDFTLTISNVQSEDLADYFC	QQYSSYPLT	FGAGTKLELK	229
SC16.106	DIKMTQSPSSMYASLGERTTITC	KASQDINSYLS	WFOQKPGKSPKTLIY	RANRLVD	GVPSRFSGSGGQDYSLTSSLEYEDMGYYC	LQYDEFPFT	FGSGTKLEIK	233
SC16.107	DIVMTQSHKFMSTSVGDRVSITC	KASQDVNTAVG	WYQOKPGQSPKLLIY	SASYRYT	GVPRDFTGSGGTDFTFTISSVQAEDLAVYYC	QQHYSSPYT	FGGGTKVEIK	237
SC16.108	DIQMTQSPASLSASVGETVTITC	RASENIYSYLA	WYQOKGQKSPQLLYY	NAKTLAE	GVPSRFSGRSGSQFSLKINSIQPEDFGSYYC	QHHYGTPT	FGGGTKLEIK	241
SC16.109	QIVLTQSPAIMSASPGEKVTMTCTC	SASSSVSYMY	WYQOKPGSSPRLIY	DTSNLAS	GVPIRFSGSGGTSFSLTISRVEAEDTATYYC	QEWSGNPLT	FGDGTKLELK	245
SC16.110	NIVMTQTPKELLVSAGDRVITTC	KASQSVNDVA	WYQOKPGQSPKLLIY	YASNRYT	GVPRDFTGSGGTDFTFTISTVQAEDLAVYFC	QQDYSSPPT	FGGGTKLEIK	249
SC16.111	DIQMTQSPASLAASVGETVTITC	RASENIYSYLA	WYQOKGQKSPQLLYY	NANSLED	GVPSRFSGSGGTQYSMKINSMQPEDATYFC	KQTYDVPLT	FGAGTKLELK	253
SC16.113	DVWMTQTPLTLSVTIGQPASISC	KSSQSLLDSDGTTYLN	WLLQRPGQSPKRLIY	LVSKLDS	GVPRDFTGSGGTDFTLTKISRVEAEDLGVYYC	WQGTHTFPLT	FGAGTKLELK	257
SC16.114	QIVLSQSPAILSASPGEKVTMTCTC	RASSSVSYMH	WYQOKPGSSPKPWIY	ATSNLAS	GVPARFSGSGGTSYSLTISRVEAEDAATYYC	QQWSSNPYT	FGGGTKLEIK	261
SC16.115	DVWMTQTPLTLSVTIGQPASISC	KSSQSLLDSDGTTYLN	WLLQRPGQSPKRLIY	LVSKLDS	GVPRDFTGSGGTDFTLTKISRVEAEDLGVYYC	WQGTHTFPLT	FGAGTKLELK	265

FIG. 6A cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.116	DIVMTQSPSSLTVTAGEKV/TMSC	TSSQSLLTSGNQKNYLT	WYQQKPGQPKLLIY	WASTRES	GVPRFTGSGSGTGDFLTLSLQAEDLAVYYC	QNDYSLT	FGAGTKLEIK	269
SC16.117	DIQMNQSPSSLSASLGDITITTC	HVSNINNVWLS	WYQQKPGNIPKLLIQ	KASNLHT	GVPSRFSGSGSGTGFTLTSSLPQEDATYYC	QQGQSYPT	FGSGTKLEIK	273
SC16.118	DIVLTQSPASLAVSLGQRATISC	KASQSVDDYDGDSTLT	WYQQKPGQPKLLIY	AASNLES	GIPARFSGSGSGTGDFLTNIHPVEEEDAAATYYC	QQSNEDPYT	FGGGTKLEIK	277
SC16.120	DIVMSQSPSSLAVSVGEKV/TMSC	KSSQSLLYSTQKNYLA	WYQQKPGQPKLLIY	WASTRES	GVPRFTGSGSGTGDFLTLSVKAEDLAVYYC	QQYYSYPYT	FGGGTKLEIK	281
SC16.121	QIVLTQSPAIMSASPGEKV/TITC	SASSSVSYMH	WFQQKPGTSPKLLIY	STSNLAS	GVPARFSGSGSGTSYSLTISRMEAEADAATYYC	QQRSSYPPT	FGGGTKLEIK	285
SC16.122	DIVMTQSQKFMTSVGDRVSVTC	KASQNVGTNVA	WYQQKPGQPKLLIY	SASYRYS	GVPRFTGSGSGTGDFLTTSNVSQSEDAEFFC	QQYNSYPLT	FGGGTKLEIK	289
SC16.123	QIVLTQSPAIMSASLGERVTMTTC	TASSSVSSSYLH	WYQQKPGSSPKLLIY	STSNLAS	GVPARFSGSGSGTSYSLTSSMETEDAAATYYC	HOYHRSPT	FGSGTKLEIK	293
SC16.124	DIQMTQSPASQSASLGESVTITC	LASQTIGTWLA	WYQQKPGKSPQLLI	AATSLAD	GVPSRFSGSGSGTGKFSFKSSLQAEDFVSYYC	QQLYSTPWT	FGGGTKLEIK	297
SC16.125	DIQMNQSPSSLSASLGDITITTC	HASQINNVWLS	WYQQKPGNIPKLLIY	KASILHT	GVPSRFSGSGSGTGFTLTSSLPQEDATYSC	QQGQSYPYT	FGGGTKLEIK	301
SC16.126	DIQMNQSPSSLSASLGDITITTC	HASQINNVWLS	WYQQKPGNIPKLLIY	KASNLHT	GVPSRFSGSGSGTGFTLTSSLPQEDATYYC	QQGQSYPT	FGSGTKLEIK	305
SC16.129	DIQMTQSPASQSASLGESVTITC	LASQTIGTWLA	WYQQKPGKSPQLLIY	AATSLAD	GVPSRFSGSGSGTGKFSFKSSLQAEDFVSYYC	QQLYSTPYT	FGGGTKLEIK	309
SC16.130	DIQLTQSPASLSASVGETV/TITC	RASGSIHNYLA	WYQQKQKSPQLLY	NAKTLVD	GVPSRFSGSGSGTGQYSLKNSLPQEDFGYYC	QHFWTTPWT	FGGGTKLEIK	313
SC16.131	DIQMNQSPSSLSASLGDITITTC	HVSNINNVWLS	WYQQKPGNIPKLLIQ	KASNLHT	GVPSRFSGSGSGTGFTLTSSLPQEDATYYC	QQGQSYPT	FGSGTKLEIK	317
SC16.132	DIQMTQSPASQSASLGESVTITC	LASQTIGTWLA	WYQQKPGKSPQLLIY	AATSLAD	GVPSRFSGSGSGTGKFSFKSSLQAEDFVSYYC	QQLYSTPWT	FGGGTKLEIK	321
SC16.133	SIIVMTQTPKELLVSAGDRV/TITC	KASQSVNDVA	WYQQKPGQPKLLIY	CASNRYT	GVPRFTGSGYGTDFLTISTVQAEDLAVYFC	QQDYSSPLT	FGAGTKLEIK	325
SC16.134	DIVLTQSPASLAVSLGQRATISC	KASQSVDHAGDSYMN	WYQQKPGQPKLLIY	AASNLES	GIPARFSGSGSGTGDFLTNIHPVEEEDAAATYYC	QQSNEDPYT	FGGGTKLEIK	329
SC16.135	DIKMTQSPSSMYASLGERVTITC	KASQDINRYLS	WFQQKPGKSPKLLIY	RANRLVD	GVPSRFSGSGSGQDYSLTSSLEYEDMGYYC	LOYDEFFPT	FGSGTKLEIK	333
SC16.136	DIQMTQSPASLSASVGETV/TITC	RASGNIHNYLA	WYQQKQKSPHLLIY	NAKTLAD	GVPSRFSGSGSGTGQYSLKNSLPQEDFGYYC	QHFWSTPWT	FGGGTKLEIK	337
SC16.137	QIVLTQSPAIMSASLGEETITC	SASSSVSYMH	WYQQKSGTSPKLLIY	STSNLAS	GVPSRFSGSGSGTGFTLTSSVKAEDAAATYYC	QHWSSYHT	FGGGTKLEIK	341

FIG. 6A cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.138	DIQMTQSPASQSASLGESVTITC	LASQTIGTWLA	WYQQKPGKSPQLLIY	SATSLAD	GVPSPRFGSGSGTGKFSFKSSLQAEDFVSYYC	QQLYSTPWT	FGGGTKLEIK	345
SC16.139	DIVMTQSHKFMSTSVGDRVSITC	KASQDVNTAVG	WYQQKPGQSPKLLIY	SASYRYT	GVPDRFTGSGSGTDFTFITISSVQAEDLAVYYC	QQHYSSPYT	FGGGTKLEIK	349
SC16.140	DIVLTQSLASLAVSLGQRATISC	RASKSVSTSGYSYMH	WYQQKPGQPPKLLIY	LASNLES	GVPARFSGSGSGTDFLTNIHPVEDEDAATYYC	QHSRELPT	FGGGTKLEIK	353
SC16.141	DIKMTQSPSSMYASLGERTITC	KASQDINSYLS	WFQQKPGKSPKTLIY	RANRLVD	GVPSPRFGSGSGGQDYSLTISSEYEDMGYYC	LOYDEFPPT	FGSGTKLEIK	357
SC16.142	DIKMTQSPSSMYASLGERTITC	KASQDINNLYS	WFQQKPGKSPKTLIY	RANRLVD	GVPSPRFGSGSGGQDYSLTISSEYEDMGYYC	LOYDEFPYT	FGGGTKLEIK	361
SC16.143	DVLMTQTPLSLPVSLGDAQSISC	RSSQSIHNSNGNTYLE	WYLGKPGQSPKLLIY	KVSNRFS	GVPDRFSGSGSGTDFLTISRVEAEDLGVYYC	FQGSHPVLT	FGAGTKLEIK	365
SC16.144	SIVMTQTPKFLLLVSAAGDRVITTC	KASQSVSNDVG	WYQQKPGQSPKLLIY	YASNRYN	GVPDRFTGSGYGTDFTFITVQAEDLAVYFC	QQDYSSPWIT	FGGGTKLEIK	369
SC16.147	DIQMTQTASSLSASLGDRVITSC	RASQDINNLYN	WYQQKPDGTVKLLIY	YTSRLHS	GVPSPRFGSGSGTQDYSLTISILEQEDATYFC	QQGDTLPWT	FGGGTKLEIK	373
SC16.148	QIVLTQSPAIMASPGGEKVTMTIC	SASSSVSYMY	WYQQKPGSSPRLIY	DTSNLAS	GVPVRFSGSGSGTSYSLTISRMEAEADTATYYC	QEWNNPLT	FGDGTKELEIK	377
SC16.149	DIQMNQSPSSLSASLGDTITTC	HASQNNVWLS	WYQQKPGNIPKLLIY	KASHLHT	GVP SRLSGSGSGTGFTLTISSLQPEDATYYC	QQGQSPPT	FGSGTTLEIK	381
SC16.150	DIVMSQSPSSLTVSVGEKVTMSC	MSSQSLLYSSTQKNYLA	WYQQKPGQSPKLLIY	WASTRES	GVPDRFTGSGSGTDFLTISSVKAEDLAVYYC	QQYYSYPYT	FGGGTKLEIK	385

FIG. 6A cont.

Amino Acid Sequences of Exemplary Humanized Anti-DLL3 Antibody Light Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
hSC16.13	DIQMTQSPSSLASVGDRVTTTC	SASSSVSYMY	WYQQKPGKAPKLLIY	LTSNLAS	GVPSTRFSGSGGTDFLTISSLQPEDFATYYC	QQWRSNPFT	FGQGTKLEIK	389
hSC16.15	AIQLTQSPSSLASVGDRVTTTC	RASENIYYNLA	WYQQKPGKAPKLLIY	TANSLED	GVPSTRFSGSGGTDFLTISSLQPEDFATYFC	KQAYDVPPPT	FGGGTKLEIK	393
hSC16.25	EIVLTQSPDFQSVTPKEKVTTC	SASSSVSYMH	WYQQKPDQSPKLLIK	DSSKLAS	GVPSTRFSGSGGTDFLTINSLEAEDAATYYC	QQWSSNPFT	FGQGTKLEIK	397
hSC16.34	DIQMTQSPSSLASVGDRVTTTC	KASQSVSNDVA	WYQQKPGKVPKLLIY	YASNRYT	GVPSTRFSGSGGTDFLTISSLQPEDVATYFC	QQDYSSPWT	FGGGTKVEIK	401
hSC16.56	EIVMTQSPATLSVSPGERATLSC	KASQSVSNDV	WYQQKPGQAPRLLIY	YASNRYT	GIPARFSGSGGTDFLTISSLQSEDFAVYYC	QQDYTSPWT	FGQGTKLEIK	405

FIG. 6A cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.3	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGKGLEWLA	HIWDDVKRYNPALKS	RLTISKDTSSSQVFLKIASVDTDADTATYYCAR	IADYGGDYAMDY	WGGGTSVTVSS	23
SC16.4	QIQLVQSGPELKPGETVKISCKASGYFT	DYSMH	WVKQAPGKGLKWMG	WINTETGEPTYADDFMG	RFAFSLETSASTAYLQNNLKNEIDTATYFCAR	YDGYAMDY	WGGGTSVTVSS	27
SC16.5	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGEGLEWLA	DIWDDNKYYNPALKS	RLTISKDTSSNQVFLKITSVDTDADTATYYCAR	RVNYYDPYYAMDY	WGGGTSVTVSS	31
SC16.7	EVQLQSGPELVKPGASVKISCKASGYFT	GYKMH	WVKQSHVKSLEWIG	RINPYNGATSYNQNFKD	KATLTVDKSSSTAYMDLHSLTSEDSAVYFCAR	GDYRYDWFAY	WGGGTLVTVSA	35
SC16.8	QAQLQSGAELVRPGTGVKVSCKASGYAFT	NYLIE	WVKQRPQGGLEWIG	VINPVGTTGTYNENFKG	KATLTADKSSSTAYMQLSSLTSDSDSAVYFCAR	SPDYHEGAMDY	WGGGTSVTVSS	39
SC16.10	QVTLKESGPIQLQSSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGKGLEWLA	HIWDDVKRYNPVLKS	RLTISKDTSSSQVFLKIASVDTDADTATYYCAR	LVDDLTYFDY	WGGGTLTVSS	43
SC16.11	QIQLVQSGPELKPGETVKISCKASGYFT	DYSMH	WVKQAPGKGLKWMG	WINTETVEPTYADDFMG	RFAFSLETSASTAFLLQNNLENEIDTATYFCAR	FGSYAMDY	WGGGTSVTVSS	47
SC16.13	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGKGLEWLA	HIWDDVKRYNPALKS	RLTISKDTSSSQVFLKIASVDTDADTATYYCAR	IVSFDNDVVSAMDY	WGGGTSVTVSS	51
SC16.15	QVQLQSGAELAKPGASVKMSCKASGYFT	RYWH	WIKQRPQGGLEWIG	YNPTTVTYTEFNQNFKD	KATLTADKSSSTASMQLSSLTSEDSAVYFCAR	GGSNFFDY	WGGGTLTVSS	55
SC16.18	EVKLEESGGGLVQPGESMKLSCAASGFTFS	DAWMD	WVROSPEKGLEWVA	EIRKANNHATYYAESVKG	KFTISRDDSKSRVYLMNNLRAADTGYYCTA	YSNFAY	WGGGTLVTVST	59
SC16.19	EVQLQSGAELVRPGASVKLSCTASGFNIK	DSLH	WVKQRPKEKGLEWIG	WIDPEDGETKYAPNFQD	KATITTDSSSNTAYLQLISLTSDTATYYCAY	GNVYRHFYD	WGGGTLTVSS	63
SC16.20	QVQLQSGGTELVRPGTGVSRVSKASGYAFG	NHLIE	WVKQRPQGGLEWIG	VINPVGTTGTHYNEFKD	KARLTADKSSNTAYMHLNLSLTSDDSAVYFCAR	SPDYHEGAMDY	WGGGTSVTVSS	67
SC16.21	QVQLQSGPELVKPGASVKISCKASGYAFS	SSWMN	WVKQRPQGGLEWIG	RIYPGDGDITNYNGKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFCAM	GIYNYDGSRYYSMDY	WGGGTSVTVSS	71
SC16.22	QVQLQSGAELVKPGASVKLSCKASGYFT	TYWMH	WVKQRPQGGLEWIG	EIDPSDSYTYNQKFKG	KATLTVDKSSSTAYMQLSSLTSEDSAVYFCAR	GDYGNPYAMDY	WGGGSSVTVSS	75
SC16.23	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSNTGIG	WIRQPSGTGLEWLA	HIWDDNKYYNPALKS	RLTISKETSNNQVFLKITNVDTDADTASYCVQ	IGRDYSNWAYFVDY	WAGGTTVTVSS	79
SC16.25	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGEGLEWLT	DIWDDNKYYNPALKS	RLTISKDTSSNQVFLNITSVDTDADTATYYCAR	RVNYYDPYYAMDY	WGGGTSVTVSS	83
SC16.26	QIQLVQSGPELKPGETVKISCKASGYFT	DYSMH	WVKQAPGKGLKWMG	WINTETVEPTYADDFMG	RFAFSLETSASTAFLLQNNLENEIDTATYFCAR	FGSYAMDY	WGGGTSVTVSS	87
SC16.29	QVQLQSGAELARPASVKLSCKASGYFT	DQYIN	WVKQRTGGGLEWIG	EIYGRGNTYNEKFKG	KATLTADKSSSTAYMQLSSLTSEDSAVYFCAR	EDGGYDDAWFAY	WGGGTLVTVSA	91
SC16.30	QVTLKESGPIQLPSQTLSTCSFSGFSL	TSGMGVG	WIRQPSGKGLEWLA	HIWDDVKRYNPALKS	RLTVSKDTSSNQVFLKIATDAADTGTYFCAR	IVDGHPPFAY	WGGGTLVTVSA	95
SC16.31	EVQLQSGPELVKPGASVKISCKASGYFS	RFYMH	WVKQSPENSLEWIG	EINPSTGGTSYNQKFKG	KATLTVDKSSSTAYMQLKSLTSEESAVYYCTR	GYGSNWYFDY	WAGGTTVTVST	99

FIG. 6B

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.34	QIQLVQSGPELKPGETVKISKASGYTFT	NYGMN	WVKQAPGKGLKWMG	WINTYGDFTYADDFKG	RFAFSLETSASTAYLQINLNKEDTATYFCAR	IGGNPSPDY	WGGGTSLVSS	103
SC16.35	DVQLQESGPGLVKPSQSLSLTCTVTGYSIT	SDYAWN	WIRFPNGKLEWVG	YISYSGSTSYNPSLKS	RISITRDTSKNQFFLQNLNVTTEDTATYFCAR	FYGGSSYAMDY	WGGGTSVTVSS	107
SC16.36	QVQLQQSGAELAKPGASVKMSCKASGYTFT	TYWIMH	WVKQRPQGGLWIG	YINPSSGYTEYNQKFKD	KATLTADKSSSTAYMQLSSLTSEDSSVYYCAR	KGSNRGFAY	WGGGTLTVSS	111
SC16.38	EVQLQQSGAELVKPGASVKLSCTVSGFNK	DTYIH	WVKQRPQGGLWIG	RIDPANGNTKYDPKFKG	KATTADTSSNTAYLQLSSLTSEDVAVYYCAR	PTGYFEY	WGGGTLTVSS	115
SC16.41	EVKLEESGGGLVQFGGSMKLSCAASGFTFS	DAWMD	WVKQSPGKLEWVA	EIRNKANHATYYPESVKG	RFTISRDDSKSRVYLQMNLRRAEDTGYYCTG	YSSFAY	WGGGTLTVSA	119
SC16.42	QIQLVQSGPELKKPGETVKISKASGYTFT	TAGMQ	WVKQMPGKFKWIG	WINTHSGEPKYADDFKG	RFAFSLETSASTAYLQISNLKEDTATFFCAP	LWSDSSFAY	WGGGTLTVSA	123
SC16.45	QVQLQQSGADLVRPGTSVKVSKASGYST	NYLIE	WVKQRPQGGLWIG	VINPSSGGTHYNEKFKD	KAVLTADKSSSTAHMQLSSLTSDSAVYFCAR	SPDYNDGAMDY	WGGGTSVTVSS	127
SC16.47	EVQLQQSGPELVKPGASVKISKASGYSTFS	RFYMH	WVKQSPENSLEWIG	EINPSTGGTSYNQKFKG	KATLTVDKSSSTAYMQLKSLTSESAVYYCTR	GYGNCYFDV	WAGATTVTVST	131
SC16.49	QVQLQQSGPELVKPGTLVKISKASGYTFT	SYDIN	WVKQRPQGGLWIG	WYPGDGNTRYSEKFKG	KATLTADKSSSTAYMQLTSLTSENSAVYFCAR	DYDYPFAY	WGGGTLTVSA	135
SC16.50	EVQLVEGGGCLVKPGGGLKLSCAASGFTFS	SYAMS	WVKQSPKRLWVA	EISIGGSYTYYPDVTG	RFTISRDNKNTLYLEMSSLRSEDAMYYCAR	EGYDYDVRAMDY	WGGGTSVTVSS	139
SC16.52	QVQLKESGPGLVAPSQSLITCAVSGFSLT	SFAIH	WFRKPPGKGLWLG	VWVTGGTNNYNSALMS	RLSISKDNSKSQVFLKMNSLQTDTDAMYYCAR	DDYDNNYAMDY	WGGGTSVTVSS	143
SC16.55	EVQLVESGGGLVQPKGSLKLSCAVSAFTFT	TYAMIN	WVKQAPGKLEWVA	RIRKSNNTAYYADSVKD	RFTISRDDSQSMLYLQMNLIKEDTAMYYCVF	YYDYVY	WGGGTLTVSA	147
SC16.56	QIQLVQSGPELKKPGETVKISKASGYTFT	NYGMN	WVKQAPGKGLWMA	WINTYGEPTYADDFKG	RFAFSLETSASTASLQINLNKEDTATYFCAR	IGDSSPSDY	WGGGTLTVSS	151
SC16.57	EVKLVEGGDLVKPGGSLKLSCAASGFAFS	SYDMS	WVKQTPKRLWVA	TISSGGSYTYYPDSVKG	RFTISRDNVRDTLYLQWSSLRSEDATLYFCAR	QAIGTYFDY	WGGGTLTVSS	155
SC16.58	DVQLVESGGGLVQPGGSRKLSCAASGFTFS	SFGMH	WVKQAPGKLEWVA	YISSGSSNIYYADTVKG	RFTISRDNPKNTLFQMNTSLRSEDAMYYCAR	GYGNYDAMDY	WGGGTSVTVSS	159
SC16.61	EVLLQRSGLDLVKPGASVTIPCKASGYTFT	DYNMD	WVKQSHGKLEWIG	NINTYNGGTYNQKFKG	KATLTVDKPSSTAYMELRSLTSEDVAVYYCAR	RLRYGSHYFDY	WGGGTALTVSS	163
SC16.62	EVMLVESGGDLVKPGGSLKLSCAASGFTFS	SYAMS	WVKQTPKRLWVA	YISGGGDHYYDPSVRG	RFTISRDNKADTLYLQWSSLRSEDATLYDCAR	VRDWYFDV	WAGATTVTVSS	167
SC16.63	QVQLQQSGTELLRPASVKISCKATGYTFS	SYWME	WVKQRPGHGLEWIG	EILPSSGTTQYNEKFKG	KATFTADTSSNTAYMHLSSLTSESAVYYCAR	GTNSL	WGGGTLTVSA	171
SC16.65	QVTLKESGPGQLQPSQTLTSLTCSFSGFSL	TSGMGVG	WIRQSPGKLEWLA	LWVDDDKRYNPALKS	RLTISKDASSSQVFLKIASVDTDADTATYFCAR	IASYDYDVVYAMDY	WGGGTSVSVSS	175
SC16.67	EVQLVETGGGLVQPKGSLKLSCAVSAFTFT	TYAMIN	WVKQAPGKLEWVA	RIRKSNNTAYYADSVKD	RFTISRDDSQSMLYLQMNLIKEDTAMYYCVF	YYDYVY	WGGGTLTVSA	179

FIG. 6B cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.88	QVQLQQPGAELVKPGASVKMSCKASGYTFT	NYNMH	WVKQTPGGGLEWIG	AIFPGNGGTSYNGKFKG	KATLTADKSSSTAYMQLTSLTSGDSAVYYCAR	WGYGSLYAMDY	WQGQTSVTVSS	183
SC16.72	EVQLQQSGPELVKPGASVKMSCKASGYTFT	SYVMH	WVKQKPGGGLEWIG	YINPYNDGTYNKEFKG	KATLTSDKSSSTAYMELSSLTSEDSAVYYCAR	LRSRAMDY	WQGQTSVTVSS	187
SC16.73	QVQLQQSGAELMKPGASVKISCKANGYFTS	SYWIE	WLRQRPGHGLEWIG	EILPGSDNSNYNEKFKG	KATFTADTSSNTAYMQLSSLTSEESAVYYCTR	GLRRDSYVYMEH	WQGQTSVTVSS	191
SC16.78	EVKLVEGGGLVKPGGSLKLSCAASGFTFG	RYVMS	WVRQTPEKKLEWVA	SITSGGTTYYPDSVKG	RTISRDNARNILYLQMSLSRSEDAMYYCAR	VYHYDDIFAY	WQGGLTVTSA	195
SC16.79	EVQLQQSGPELVKPGASVKISCKTSGYTFT	EYTMH	WVKQSHGKSLWIG	GINPNNGGTSYNGKFKG	KATLTVDKSSSTAYMELRSLTSEDSAVYYCAR	GPAWFAY	WQGGLTVTSA	199
SC16.80	EVQLQQSGPELVKPGGSKKISCKASGYSTF	GYSMN	WVKQSHGKLEWIG	LINPYSGGTYNQKFKG	KATLTVDKSSSTAYMELLSLTSEDSAVYYCAR	RSDYPLVY	WQGGLTVTSA	203
SC16.81	QVQLKESGPIVLVAPQSLSITCTVSGFSLT	SYGVH	WVRQPPGKGLEWLG	VIWAGGSTNYNSALMS	RLSISKDNKSQVFLKMNSLQTDDTAMYYCAK	QGNFYAMDY	WQGQTSVTVSS	207
SC16.84	EVQLQQSGPELVKPGASMKISCKASGYSTF	GYTMN	WVKQSHGKLEWIG	LINPYNGGTYNQKFKG	KATLTVDKSSSTAYMELLSLTSEDSAVYYCAL	GYYGNYRRYFDV	WGAGTTVTVSS	211
SC16.88	QVQLQQSGAELARPASVKLSCKASGYTCT	SYWMQ	WVKQRPGGGLEWIG	AIYPGDDTRYTKQFKG	KATLTADKSSSTAYMQLSLASEDSAVYYCAR	GRRTEAWFAY	WQGGLTVTSA	215
SC16.101	QVTLKESGPILQPSQTLSTCSFSFGFSL	TSGMGVG	WIRQPSGKGLEWLA	HIWDDVKRYNPALKS	RLTISKDASSQVFLKIASVDTAETATYYCAH	ILDRAYYFDY	WQGQTTLTVTS	219
SC16.103	QVTLKESGPILKPSQTLSTCSFSFGFSL	TSGMGIG	WIRQPSGKGLEWLA	HIWDDDKYYNPALKS	QLTISKDSRRNQVFLKITSVDTADTAIYYCAR	RGTAYYFDY	WQGQTLTVSS	223
SC16.104	QVQLKESGPDLVQPSQTLSTCTVSGFSLT	FYGVH	WVRQPPGKGLEWVG	TMGWDKKYYNSALKS	RLSISRDTSKNQVFLKLSLQTEDTAMYYCTR	GGTGFDY	WQGQTLTVSS	227
SC16.105	QVQLQQPGAELVKPGASVKLSCKASGYTFT	SYVMH	WVKQRPGGGLEWIG	VINPSNGRTNYNEKFKS	KATLTVDKSSSTAYMQLSSLTSEDSAVYYCAR	RRELGTLYAMDY	WQGQTSVTVSS	231
SC16.106	QVQLKQSGPLVAPQSFLITCTVSGFSLT	SYEIN	WVRQPPGKGLEWLG	VIWTTGGSTNYNSALIS	RLSISKDNKSLVFLKMNSLQTDITAIYYCVR	GVYAMDY	WQGQTSVTVSS	235
SC16.107	EVQLQQSGPELVKPGASVKMSCKASGYTFT	NYVMH	WVKQKPGGGLEWIG	YINPYNDGTYNKEFKG	KATLTSDKSSSTAYMALSSLTSEDSAVYYCAV	AYYSNWFAY	WQGGLTVTSA	239
SC16.108	QVQLQESGAELARPASVKLSCKASGSYVW	MQ	WIKQRPGGGLEWIG	AIYPNGDTRYTKQFKG	KATLTADKSSSTAYMQLSLASEDSAVYYCAR	SPAYRYGEGYFDY	WQGQTLTVSS	243
SC16.109	QIQLVQSGPELVKPGGETVKISCKASGYTFT	NYGMN	WVKQAPGKGLKWMG	WINTYTGEPAAYADDFKG	RFAFSLETSAAYLQINNLKNEDTAIFFCAN	MRPTRGFAY	WQGGLTVTSA	247
SC16.110	EVQLQQSGPLVRTGASVKISCKASGYSTF	GYVMH	WVKQSHGKSLWIG	YISCYNGATTNYNQFKG	KATFTVDTSSSTAYMQFNLSLTSEDSAVYYCAR	SDGGHAMDY	WQGQTSVTVSS	251
SC16.111	EVQLQQSGPELEKPGASVKISCKASGYSTF	GYNMN	WVKQSGNGKSLWIG	NIDPYYGGSYKQKFEK	KATLTVDKSSSTAYMQLKSLTSEDSAVYYCAR	GGSNFFDY	WQGQTLTVSS	255

FIG. 6B cont.

Amino Acid Sequences of Exemplary Murine Anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.113	DVKLVESGGGLVKPGGSLKLSAASGFTFS	SYTMS	WVRQTPKRLWVA	TISSGGSPYPYDPDVKG	RFTISRDNAKNTLYQMSSLKSEDAMYYCTR	DVYDGYSY	WGGGTLLTVSS	259
SC16.114	EVQLQQSGAELVKPGASVKLSCTASGFIK	DTYIH	WVKRPEQGLEWIG	RIDPANGTKYDPKFG	KATITPDTSSNTAYLQLSSLTSEDATVYYCAR	SWRNYSSEWFYFDV	WGA GTTVTVSS	263
SC16.115	DVKLVESGGGLVKPGGSLKLSAASGFTFS	SYTMS	WVRQTPKRLWVA	TISSGGSPYPYDPDVKG	RFTISRDNAKNTLYQMSSLKSEDAMYYCTR	DVYDGYSY	WGGGTLLTVSS	267
SC16.116	QVQLKQSGPGRVQPSSLSITCTVSGFSLT	SNQVH	WVRQSPGKGLEWLG	VLVSGGSTDYNAAFIS	RLSISKDNYSQVFFKMNLSLQANDTAIYYCAR	NNNRYGAMIDY	WGGGTSVTVSS	271
SC16.117	QVQLKESGPGLVAPSSLSITCTVSGFSLT	NYGVH	WVRQPPGKGLEWLG	VWAGGTTNYSALMS	RLSISDNKSQVFLKMNSLQTDTDAMYYCAR	NLGPYAMIDY	WGGGTSVTVSS	275
SC16.118	EVQLQQSGPDLVKPGASVKISCKASGYST	GYMH	WVKQSHGKSLWIG	RVNPNNGGTSYNQKFKG	KAILTADKSSSTAYMELRSLTSEDSAVYYCAR	GSYDYAEG	WGGGTLLTVSA	279
SC16.120	EIQLQQSGPELVKPGASVKVSKASGYAFT	SYNMY	WVMQSHGKSLWIG	YVDPYNGGTSYNQKFKG	KATLTVDKSSSTAYMHLNSLTSEDSAVYYCAR	ENRYFYDY	WGGGTLLTVSS	283
SC16.121	EVQLVESGGGLVQPKGSLKLSAASGFTFN	TYAMN	WVRQAPGKLEWVA	RIKSNNAIYAYADSVKD	RFTISRDSSQNMPLYQMNNLTEDTAVYYCVR	QGYSDWGPWFAY	WGGGTLLTVSA	287
SC16.122	EVQLVESGGGLVKPGGSLKLSAASGFTFS	DYYMF	WVRQTPKRLWVA	TISDGGSYTYFPDSVKG	RFTISRDNAQNPLYQMSSLKSEDAMYYCAR	AGTLYAMIDY	WGGGTSVTVSS	291
SC16.123	QVQLKESGPGILQPSQTLSTCTSFSGFSL	TSGWGVG	WIRQPSGKLEWLA	HIWDDVKRYNPALKS	RLTISKDTSSSQVFLKIASVOTADTATYYCAR	MEDYSSSYFDF	WGHGTLLTVSS	296
SC16.124	EVQLQQSGPELVKPGASVKMSCKASGYTFT	SYVMH	WVKQKPGQGLEWIG	YINPYNDGTYNEKFKG	KATLTSDKSSSTAYMELSSLTSEDSAVYYCAR	GALLYGNYLGYFDV	WGA GTTVTVSS	299
SC16.125	DVQLQESGPDLVKPSQSLSTCTVTGYSIT	SGYSWH	WIRQPPGNKLEWMG	YIHYSGSTNNYNPALKS	RSITRTDSKNQFFLQFKSVTTEDSATYYCAL	EGNYDGFAY	WGGGTLLTVSS	303
SC16.126	QVQMKESGPGLVAPSSLSITCTVSGSSLT	NYGVH	WVRQPPGKGLEWLG	VWAGGSTNYSALMS	RLSISKDNKSQVFLKMNSLQTDTDAMYYCAR	DWEGWFAY	WGGGTLLTVSA	307
SC16.129	QVQLKESGPGLVAPSSLSITCTVSGFSLT	DYGVH	WIRQPPGKGLEWLG	VWGGGSTYNNALKS	RLSISKDNKSQVFLKNSLQTDTDATYYCAK	HYGHYAAY	WGGGTLLTVSA	311
SC16.130	EVQLQQSGPELVKPGASVKMSCKASGYTFT	SYVMH	WVKQKPGQGLEWIG	YINPYNDGTEYNEKFKG	KATLTSDKSSSTAYMELSSLTSEDSAVYYCAR	GVYDGYSYFDY	WGGGTLLTVSS	315
SC16.131	QVQLKESGPGLVAPSSLSITCTVSGFSLT	NYGVH	WVRQPPGKGLEWLG	VWAGGTTNYSALMS	RLSISDNKSQVFLKMNSLQTDTDAMYYCAR	NLGPYAMIDY	WGGGTSVTVSS	319
SC16.132	QVQLKESGPGLVAPSSLSITCTVSGFSLT	DYGVH	WIRQPPGKGLEWLG	VWVGGGSTYNNALKS	RLSITKDNKSQVFLKMNSLQTDTDAMYYCAK	QRQYGAAY	WGGGTLLTVSA	323
SC16.133	QVQLKESGPGLVAPSSLSITCTVSGFSLT	NYAVH	WVRQSPGKGLEWLG	VWSDGSTDYNAAFIS	RLSISKDNKSQVFFKMNLSLQADTDAMYYCAR	KKGGWFPFWFAY	WGGGTLLTVSA	327
SC16.134	EVQLQQSGPDLVKPGASVKISCKASGYST	GYMH	WVKQSHGKRLWIG	RVNPNNGGTTNYSALMS	KAILTVDKSSSTAYMELRSLTSEDSAVYYCAR	GSYDVAEG	WGGGTLLTVSA	331
SC16.135	QVQLQQSGAELVPRPGTSVKVSKASGYAFT	NYLIE	WVKQRPQGQGLEWIG	VINPVGSGGTTNYSALMS	KATLTADKSSSTAYMQLSSLTADSADSVYYCAR	SDYDYAFYAMIDY	WGGGTSVTVSS	335
SC16.136	EVQLQQSGPELVKPGASVKMSCKASGYTFT	SYVMH	WVKQKPGQGLEWIG	YINPYNDGTYNEKFKG	KATLTSDKSSSTAYMELSSLTSEDSAVYYCAR	DRSGYEDYYGMDY	WGGGTSVTVSS	339

FIG. 6B cont.

Amino Acid Sequences of Exemplary Murine anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
SC16.137	EVQLVESGGDLVKPGGSLKLSCAASGFTFS	SYGMS	WVRQTPDKRLEWVA	TISGGSYTYPPDSVKG	RFTISRDNAKNTLYLQMSLSKSEDTAMYYCAR	RRADAMDY	WGGGTSVTSS	343
SC16.138	QVQLKESGPGLLVAPSQSLSTICTVSGFSLT	DYGVS	WIRQPPGKGLEWLG	VVWGGGSTYYNSALKS	RLSISKDNSKSVFLKMNSLQTDGTDAMYYCAK	QRQYGAY	WGGGTLVTSA	347
SC16.139	EVQLQQSGPELVKPGASVKMSCKASGYTFT	NYVMH	WVKQKPGQGLEWIG	YINPYNDGTYNEKFKG	KATLTSDKSSNTAYMALSSLTSEDSAVYYCAV	AYYSNWGFAY	WGGGTLVTSA	351
SC16.140	QVQLQQSGPELVKPGASVKMSCKASGYTFT	SYWMH	WVKQKPGQGLEWIG	MIDPSNSETRLNQKFKD	KATLNVDKSSNTAYMQLSSLTSEDSAVYYCAV	MDYYFDY	WGGGTLTVSS	355
SC16.141	QVQLKQSGPGLVAPSQSLFITCTVSGFSLT	SYEIN	WVRQPPGKGLEWLG	VIWTTGGSTNYNSALIS	RLSISKDNSKSLVFLKMNSLQTDGTDAMYYCVR	GVYAMDY	WGGGTSVTSS	359
SC16.142	EVQLQQSGPELVKPGASVKISCKASGYTFT	DYNMH	WVKQSHGKSLWIG	FFYPYNGNTVYSQKFKS	KATLTVDNSSSTAYMELRSLTSEDSAVYYCAR	LNWEGY	WGGGTLTVSS	363
SC16.143	QVQLQQSGPELVKPGASVRIKCKASGYTFT	SYVYH	WVKQKPGQGLEWIG	WYPPGNGNTKYNEKFKG	KATLTADKSSSTAYMQISSLTSEDSAVYYFCAR	ERWILLWFAY	WGGGTLVTSA	367
SC16.144	QIQLVQSGPELKKPGETVKISCKASGYTFT	NYGMN	WVKQAPGKGLKWVG	WINTYTGEPTYADDFKG	RFAFSLETSASTAYLQIDNLKNEDTATYFCAR	VGDYVGFY	WGGGTLTVSS	371
SC16.147	QIQLVQSGPELTKPGETVKISCKASGYTFT	DYSLH	WVKQALGKGLKWMG	WINTETGEPAVADDFKG	RFAFSLETSASTAYLQINDLKNEDTTTTFYFCGI	YDGYAMDY	WGGGTSVTSS	375
SC16.148	QIQLVQSGPELKKPGETVKISCKASGYTLT	NYGMN	WVKQAPGKGLKWMG	WINTYTGEPTYADDFKG	RFAFSLET SARIVYLQINNLKNEDTATYFCAK	YEAHEGVY	WGGGTLVTSA	379
SC16.149	QVQLKESGPGLLVAPSQSLSTICAVSGFSLT	SFGVH	WVRQPPGKGLEWLG	VIWAGGSTNYNSALMS	RLSISIDNSKSVFLKMNSLQTDGTDAMYYCAR	DWEGWFAY	WGGGTLVTSA	383
SC16.150	EIQLQQSGPELVKPGASVKISCKASGYAFT	SYNMY	WVVSQSHGKSLWIG	YIDPYNGGTSYNQKFRG	KATLTVDKSSSTAYMHLNSLTSEDSAVYYCAR	ENRYRFDY	WGGGTLTVSS	387

FIG. 6B cont.

Amino Acid Sequences of Exemplary Humanized Anti-DLL3 Antibody Heavy Chain Variable Regions

mAb	FR1	CDR1	FR2	CDR2	FR3	CDR3	FR4	SEQ ID NO.
hSC16.13	QITLKESGPTLVKPTQTLTLTCTFSGFSL	TSGMGVG	WIRQPPGKALEWLA	HIWDDVKRYSPLKS	RLTITKDTSKNQVLTMTNMDPVDATYYCAR	IVSFDNDVVSAMDY	WQQGTLTVSS	391
hSC16.15	QVQLVQSGAEVKKPGASVKVSKKASGYTFT	RYWIIH	WIRQAPGGGLEWMG	YINPTTVYTEFNQNFKD	RVITITRDTSTSTVYMEISSLRSRSEDATVYYCAR	GGSNFFDY	WQQGTTTVSS	395
hSC16.25	QITLKESGPTLVKPTQTLTLTCTFSGFSL	TSGMGVG	WIRQPPGKALEWLT	DIWDDNKYYNP	RLTITKDTSKNQVLTMTNMDPVDATYYCAR	RVNYYDPYYAMDY	WQQGTLTVSS	399
hSC16.34	QVQLVQSGAEVKKPGASVKVSKKASGYTFT	NYGMN	WVRQAPGQRLWMG	WINTYTGDPYADDFKG	RVITITRDTSTASTAYMEISSLRSRSEDATVYYCAR	IGGNPSDY	WQQGTTTVSS	403
hSC16.56	QVQLVQSGAEVKKPGASVKVSKKASGYTFT	NYGMN	WVRQAPGGGLEWMG	WINTYTGEPYADDFKG	RVITITDTSTSTAYMEISSLRSRSDATVYYCAR	IGDSSPSDY	WQQGTLTVSS	407

FIG. 6B cont.

Domain-Level Mapping of Anti-DLL3 Antibodies

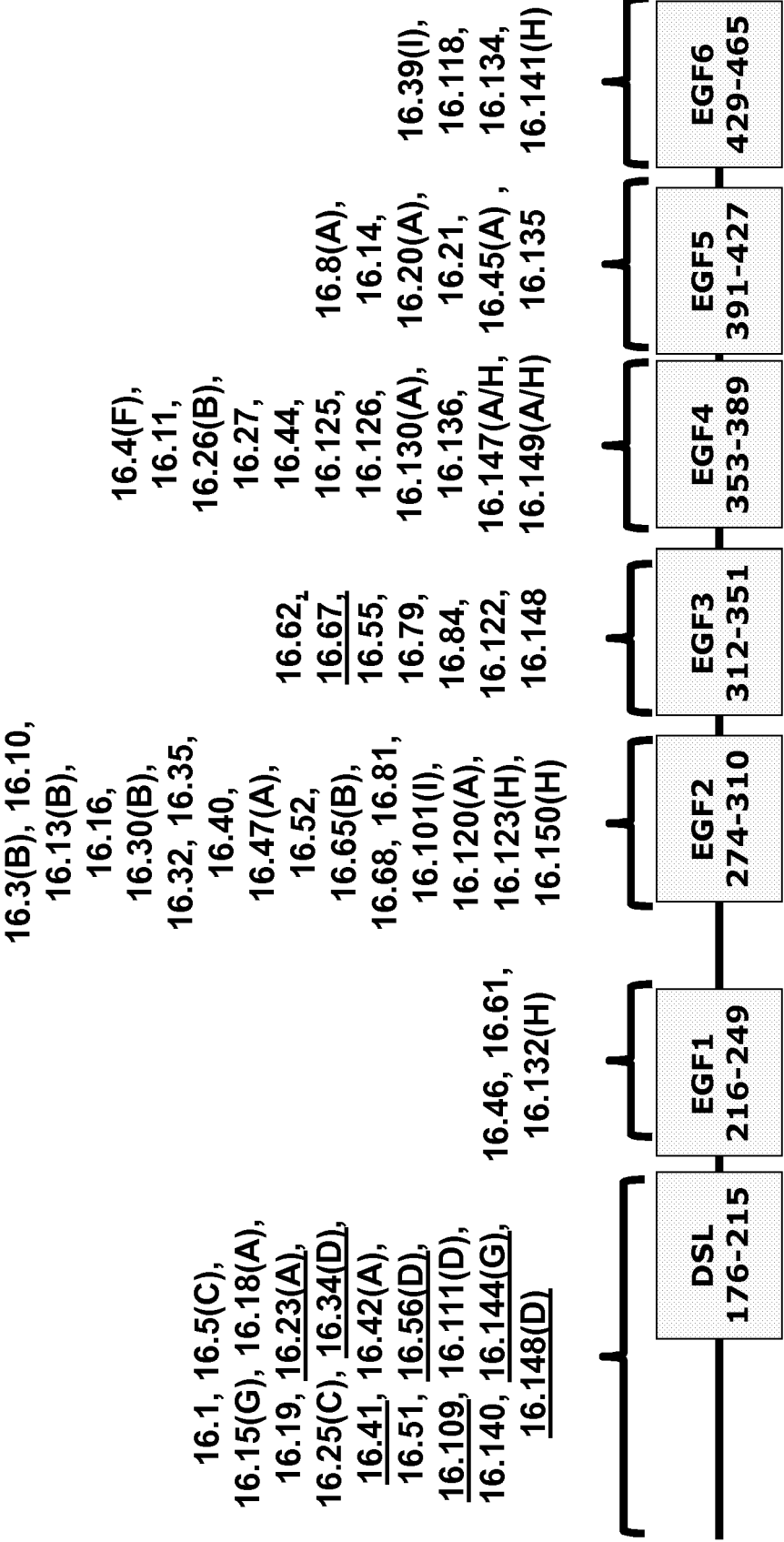


FIG. 7

DLL3 Protein Expression in Melanoma and Normal
Tissues by ELISA

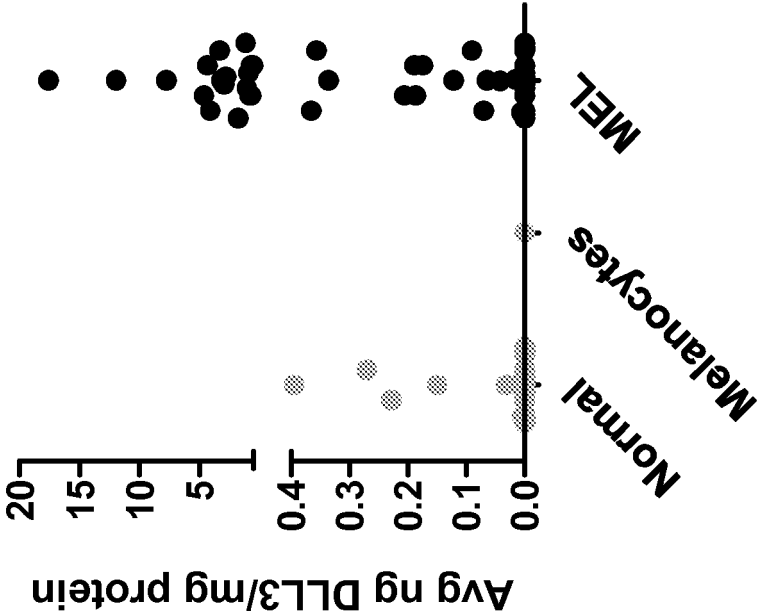


FIG. 8

DLL3 Protein Expression using Immunohistochemistry

Melanoma Line	DLL3 Expression on p0	DLL3 Expression on PDX	Mouse IgG2a
MEL7	-	ND	-
MEL8	+, 50%, c/m	ND	-
MEL17	+++, 95%, c/m	ND	-
MEL18	+++, 85%, c/m	ND	-
MEL19	+++, 75%, m/c	++, 10%, m/c	-
MEL20	-	+/+++, 10%, c/m	-
MEL26	-	-	-
MEL28	-	ND	-
MEL30	++/++++, 20%, m/c	-	-
MEL32	-	-	-
MEL37	+/+++, 40%, c/m	ND	-
MEL38	-	-	-
MEL43	-	-	-
MEL48	+/+++, 10%, c/m	++, 60%, c/m	-
MEL50	-	ND	-
MEL51	-	-	-
MEL54	-	ND	-
MEL63	-	-	-
MEL66	+/+++, 70%, c/m	+/+++, 30%, c/m	-
MEL79	-	-	-

FIG. 9

DLL3 Protein Expression using Flow Cytometry

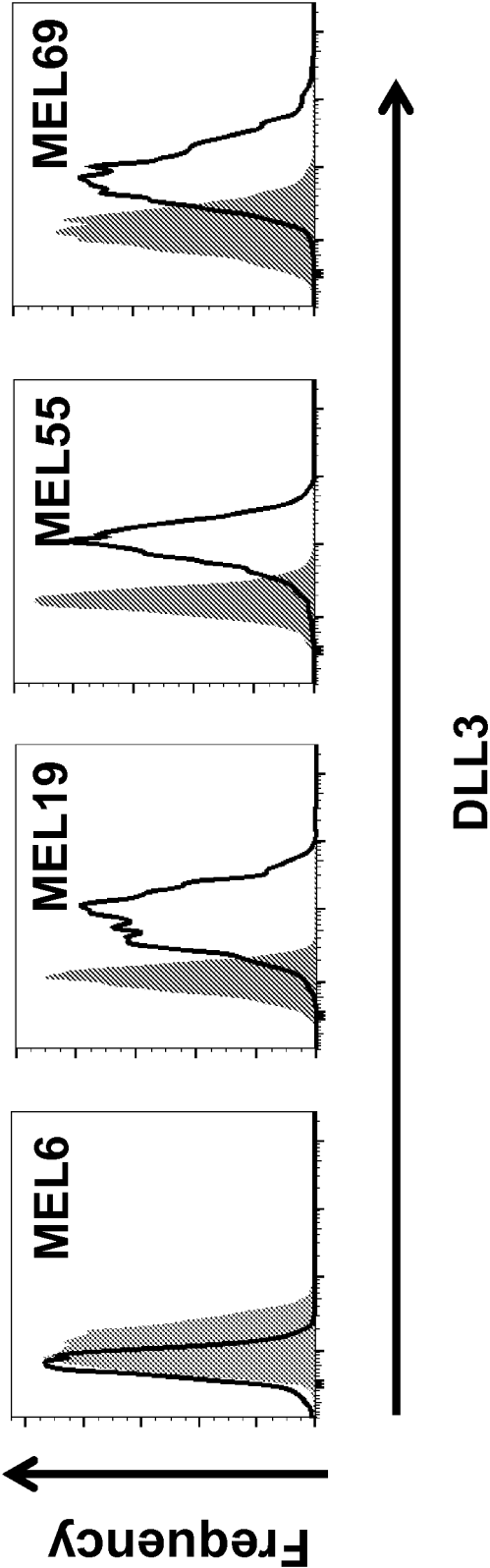


FIG. 10A

DLL3 Protein Expression in Melanocytes

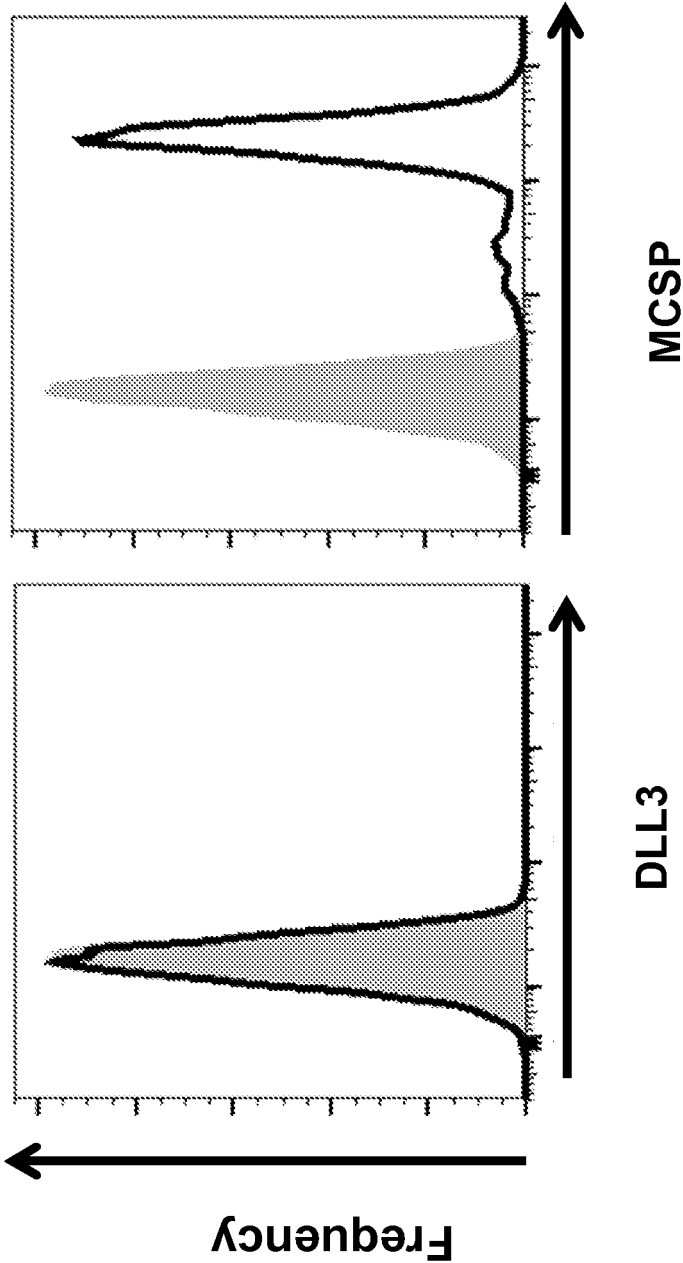


FIG. 10B

Anti-DLL3 ADCs Mediate Delivery of Cytotoxic Agents *In Vitro*

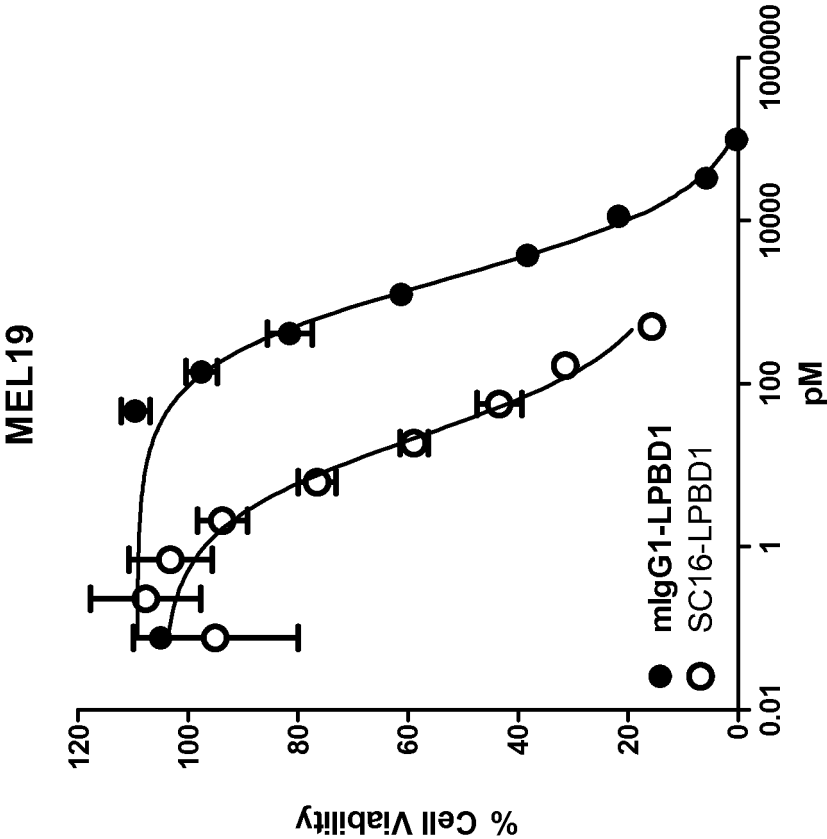


FIG. 11A

Anti-DLL3 ADCs Suppress Melanoma PDX Tumor Growth *In Vivo*

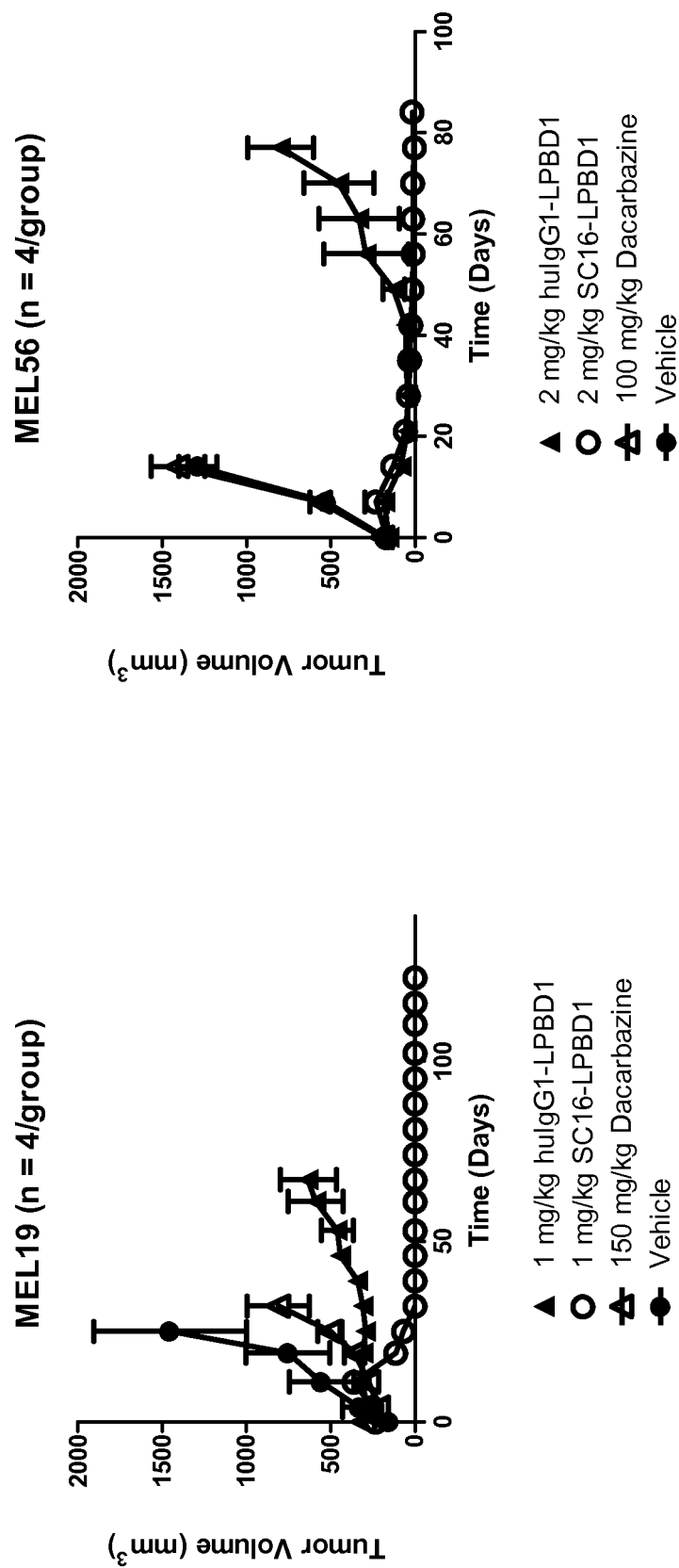


FIG. 11B

FIG. 11C

Anti-DLL3 ADCs Suppress Melanoma PDX Tumor Growth *In Vivo*

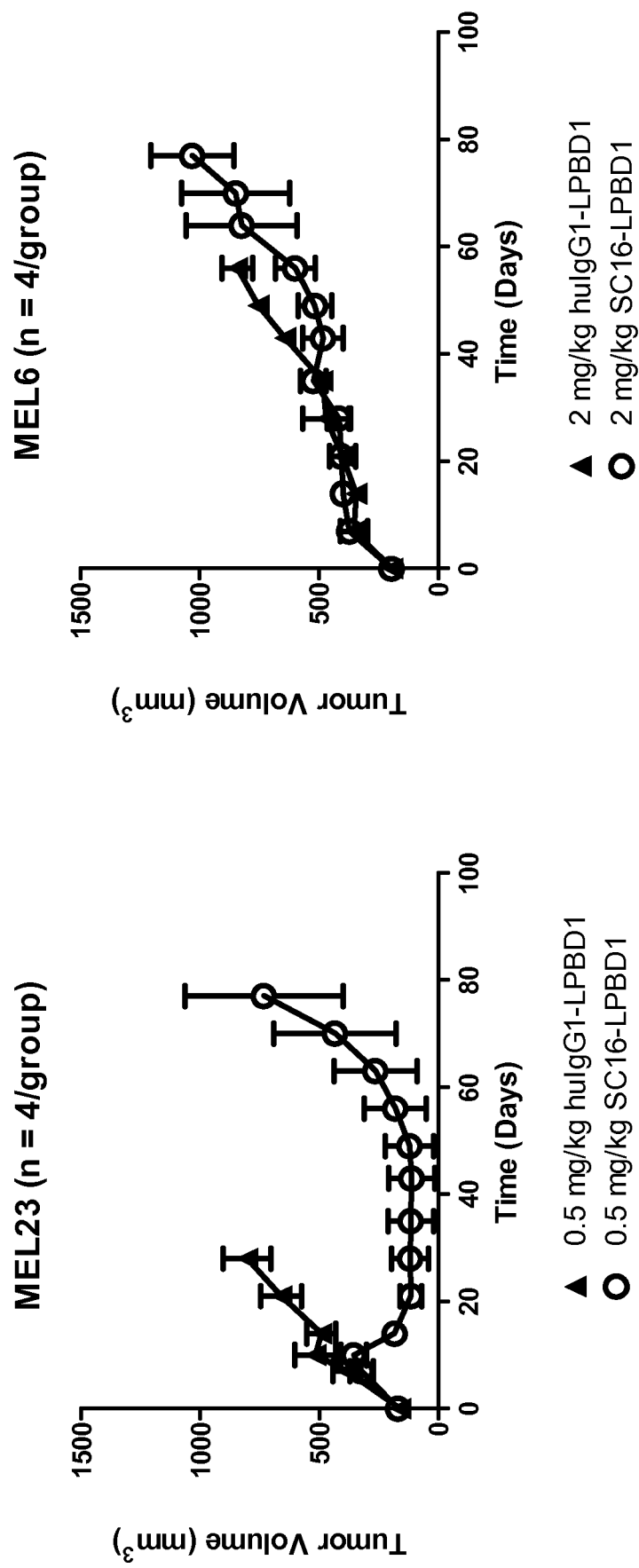


FIG. 11D

FIG. 11E

Positively Correlated Surrogate Biomarkers for
the Expression of DLL3 Protein in Melanoma

Gene Symbol	Correlation with DLL3	Gene Symbol	Correlation with DLL3
DLL3	1.000	ZNF417	0.618
PUS7	0.777	ATOH8	0.618
EFHD1	0.709	ATP6V1C1	0.618
PTP4A3	0.688	RPS10	0.617
MYO1B	0.675	RPS19	0.617
NFATC1	0.659	BCL7A	0.617
NUDT14	0.657	CHRNA2	0.614
NR6A1	0.657	CAMKK1	0.612
JAG2	0.654	SNORA43	0.611
HAUS5	0.652	TMEM117	0.610
ADAT3	0.649	CBLL1	0.609
PAFAH1B3	0.648	HSPA12B	0.609
CCDC136	0.645	OR4C46	0.606
GAS5	0.643	ZNF419	0.605
PPFIA3	0.643	ZNF570	0.604
CDK8	0.639	FANCF	0.603
ZNF114	0.637	ZNF480	0.602
KHSRP	0.637	TRPM6	0.601
MURC	0.634	CHD7	0.601
ZNRD1	0.634		
RPS19	0.631		
LRRC43	0.630		
ZCCHC3	0.627		
LIN9	0.624		

FIG. 12A

Anti-Correlative Surrogate Biomarkers for the Expression of DLL3 Protein in Melanoma

Gene Symbol	Correlation with DLL3
ZBTB20	-0.600
GPR155	-0.604
MST1	-0.605
CLVS1	-0.607
P4HA2	-0.608
CIITA	-0.612
ITPR2	-0.613
BRK1	-0.615
TGOLN2	-0.616
TADA3	-0.618
SLC38A11	-0.620
KCNQ1	-0.620
TMED6	-0.621
NRXN3	-0.636
SNX24	-0.640
OLFML3	-0.647
KCT2	-0.649
PJA2	-0.649
SEPT8	-0.682

FIG. 12B

Surrogate Markers for the Expression of DLL3 Protein in Melanoma

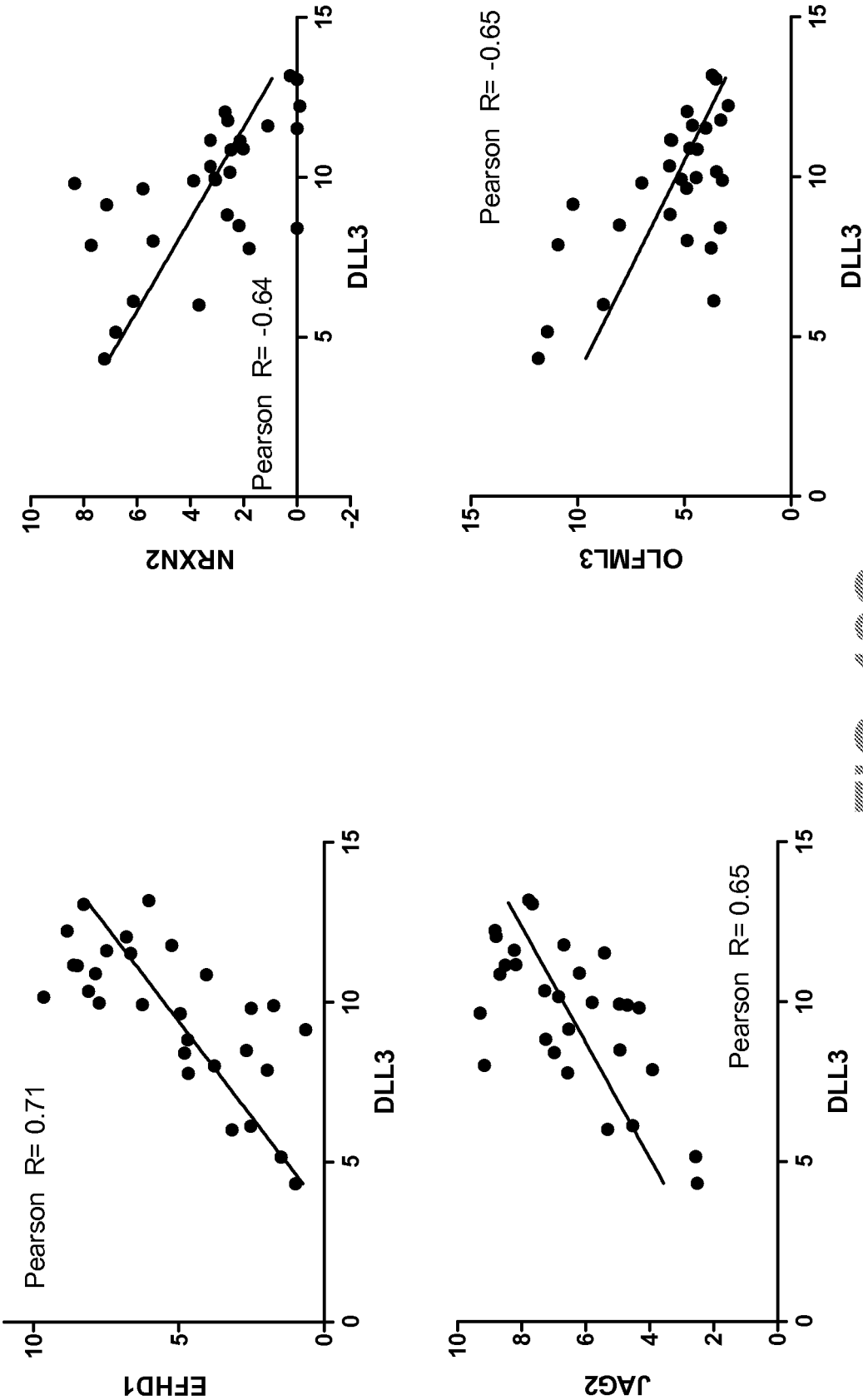


FIG. 12C

Mutation Analysis of Melanoma PDX

	# of DLL3 Positive PDX with mutations (n=14)	# of DLL3 Negative PDX with mutations (n=18)
BRAF	4 V600E; 1 V600R	8 V600E; 1 V600K
NRAS	1 Q61R	
KIT	1 L576P	
TP53	4 point mutations	1 point mutation; 1 CNV-loss
CDKN2A	7 point mutations; 5 CNV-loss	1 point mutation; 8 CNV-loss
PTEN	3 point mutations	4 point mutations; 2 CNV-loss
ARID2	2 point mutations	2 point mutations
PIK3CA	2 point mutations	2 point mutations
CTNNB1	1 point mutation	
KDR		1 C482R
MLL2		2 point mutations
MECOM	5 point mutations	3 point mutations
MLL3	1 point mutation	2 point mutations
NF1	4 point mutations	2 point mutations
PTPRK	1 point mutation	1 point mutation
TRRAP	2 point mutations	

FIG. 13

In Vivo Treatment of Melanoma PDX with Anti-DLL3
ADCs Reduces the Frequency of Cancer Stem Cells

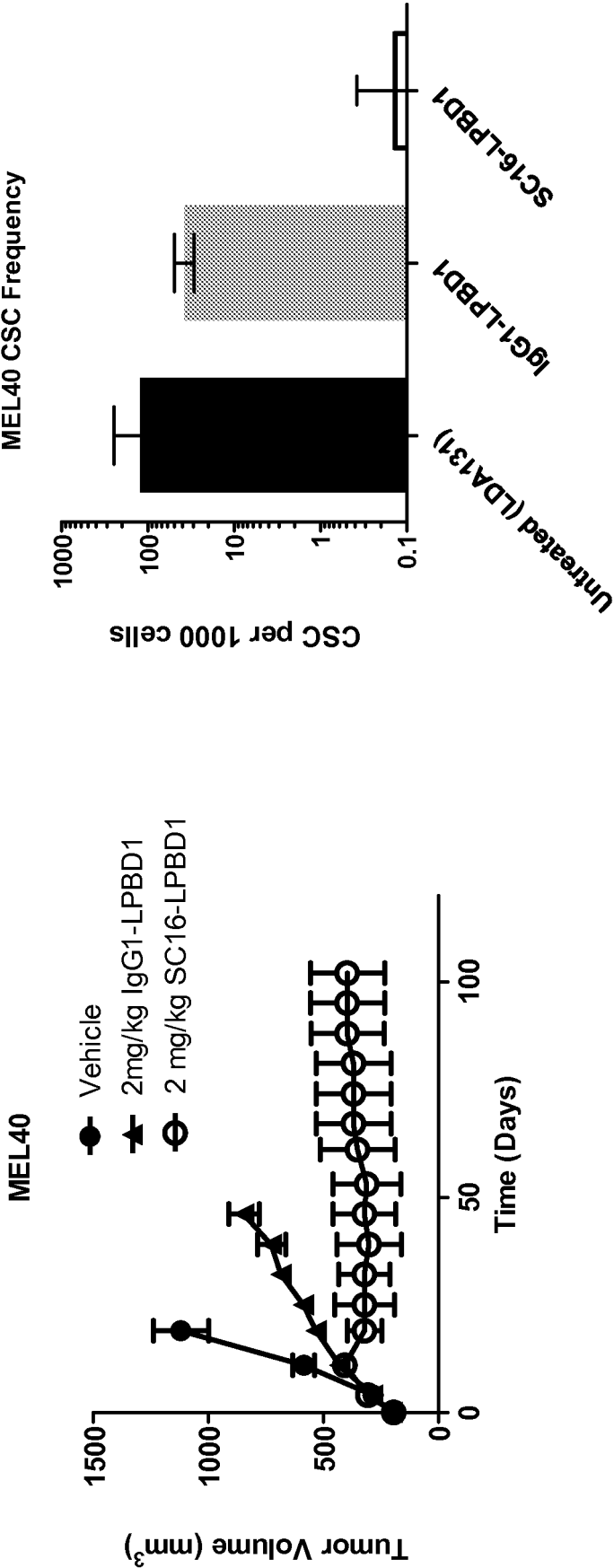


FIG. 14A

FIG. 14B