Figure 1

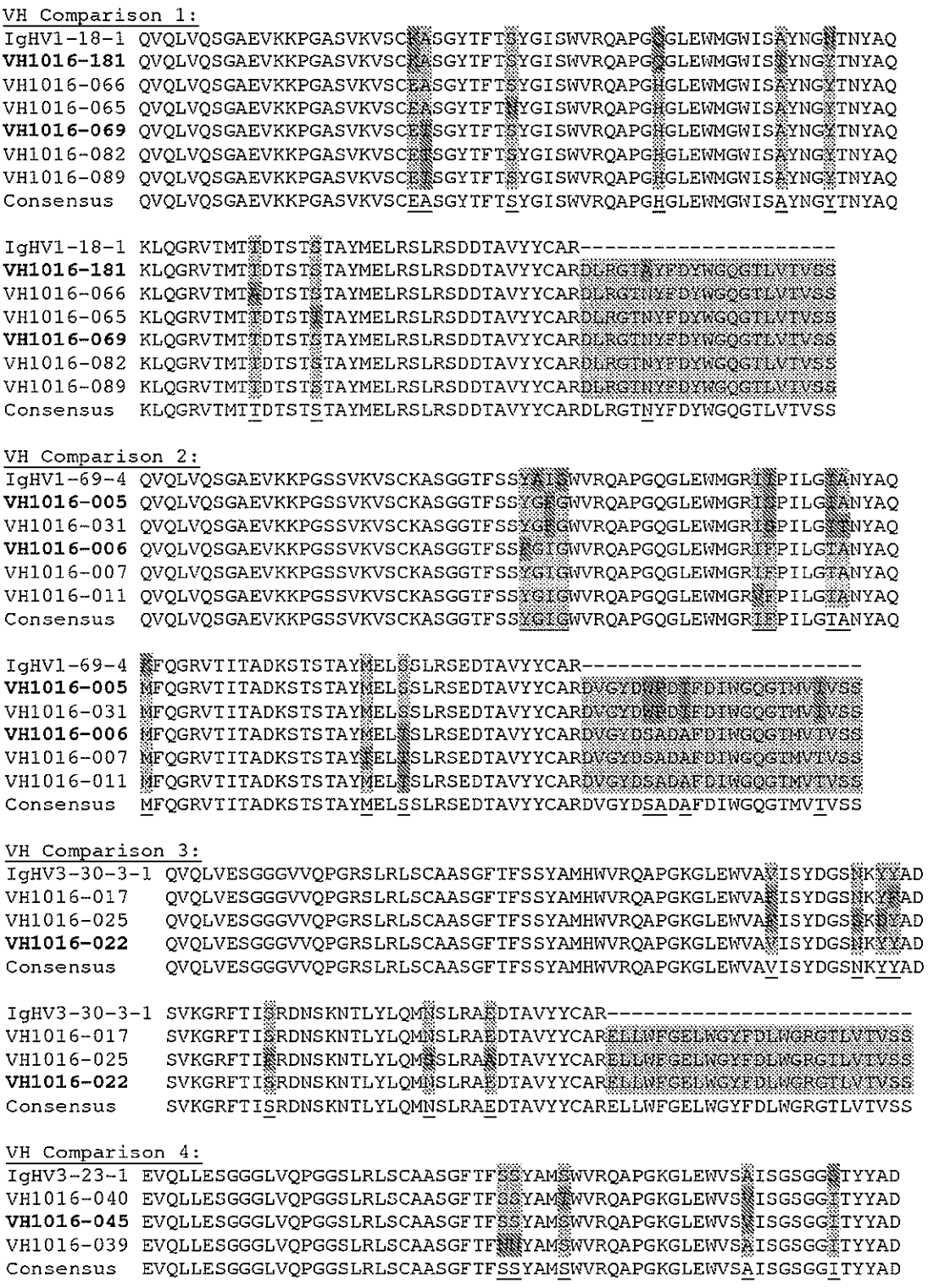

VH Comparison 1:
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VH1016-066 QVQLVQSGAEVKKPGASVKVSCEASGYTFTSYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
VH1016-065 QVQLVQSGAEVKKPGASVKVSCEASGYTFTNYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
VH1016-069 QVQLVQSGAEVKKPGASVKVSCEKSGYTFTSYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
VH1016-082 QVQLVQSGAEVKKPGASVKVSCETSGYTFTSYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
VH1016-089 QVQLVQSGAEVKKPGASVKVSCETSGYTFTSYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
Consensus QVQLVQSGAEVKKPGASVKVSCEASGYTFTSYGISWVRQAPGHGLEWMGWISAYNGYTNYAQ
IgHV1-18-1 KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCAR----------
VH1016-181 KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH1016-066 KLQGRVTMTRDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH1016-065 KLQGRVTMTTDTSTNTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH1016-069 KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH1016-082 KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH1016-089 KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
Consensus KLQGRVTMTTDTSTSTAYMELRSLRSDDTAVYYCARDLRGTNYFDYWGQGTLVTVSS
VH Comparison 2:
IgHV1-69-4 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYAISWVRQAPGQGLEWMGRIIPILGIANYAQ
VH1016-005 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYGFGWVRQAPGQGLEWMGRIIPILGIANYAQ
VH1016-031 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYGFGWVRQAPGQGLEWMGRIIPILGITNYAQ
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VH1016-007 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYGIGWVRQAPGQGLEWMGRIIPILGIANYAQ
VH1016-011 QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYGIGWVRQAPGQGLEWMGRIIPILGIANYAQ
Consensus QVQLVQSGAEVKKPGSSVKVSCKASGGTFSSYGIGWVRQAPGQGLEWMGRIIPILGIANYAQ
IgHV1-69-4 KFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCAR----------
VH1016-005 MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDWFDIFDIWGQGTMVIVSS
VH1016-031 MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDWFDIFDIWGQGTMVIVSS
VH1016-006 MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDSADAFDIWGQGTMVIVSS
VH1016-007 MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDSADAFDIWGQGTMVIVSS
VH1016-011 MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDSADAFDIWGQGTMVIVSS
Consensus MFQGRVTITADKSTSTAYMELSSLRSEDTAVYYCARDVGYDSADAFDIWGQGTMVIVSS
VH Comparison 3:
IgHV3-30-3-1 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYYAD
VH1016-017 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAIISYDGSNKYYAD
VH1016-025 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAIISYDGSSKNYAD
VH1016-022 QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYYAD
Consensus QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYAMHWVRQAPGKGLEWVAVISYDGSNKYYAD
IgHV3-30-3-1 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAR----------
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VH1016-025 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARELLWFGELWGYFDLWGRGTLVTVSS
VH1016-022 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARELLWFGELWGYFDLWGRGTLVTVSS
Consensus SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCARELLWFGELWGYFDLWGRGTLVTVSS
VH Comparison 4:
IgHV3-23-1 EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGSTYYAD
VH1016-040 EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGITYYAD
VH1016-045 EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSSISGSGGITYYAD
VH1016-039 EVQLLESGGGLVQPGGSLRLSCAASGFTFNNYAMSWVRQAPGKGLEWVSAISGSGGITYYAD
Consensus EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSAISGSGGITYYAD

Figure 1 (continued)

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IgHV3-23-1 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAK------------------
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VH1016-045 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKDRGWGSDYWGQGTLVTVSS
VH1016-039 SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKDRGWGSDYWGQGTLVTVSS
Consensus  SVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYYCAKDRGWGSDYWGQGTLVTVSS
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VH Comparison 5:

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VH1016-078   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYY
VH1016-084   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYY
VH1016-061   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD
VH1016-062   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD
VH1016-063   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD
VH1016-064   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD
VH1016-087   QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD
Consensus    QLQLQESGSGLVKPSQTLSLTCAVSGGSISSGGHSWSWIRQPPGKGLEWIGCIYHSGNTYD

IgHV4-30-2-1 NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCAR--------------------
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VH1016-078   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-084   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-061   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-062   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-063   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-064   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
VH1016-087   NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
Consensus    NPSLKSRVTISVDRSKNQFSLKLSSVTAADTAVYYCARSSYDILTDWGQGTLVTVSS
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VH Comparison 6:

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VH1016-028 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
VH1016-008 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
VH1016-012 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
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VH1016-095 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
VH1016-093 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
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VH1016-104 EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD
Consensus  EVQLVQSGAEVKKPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD

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VH1016-028 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-008 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-012 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-035 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-095 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-093 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-096 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
VH1016-104 TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
Consensus  TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARQEITGDFDYWGQGTLVTVSS
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Figure 2

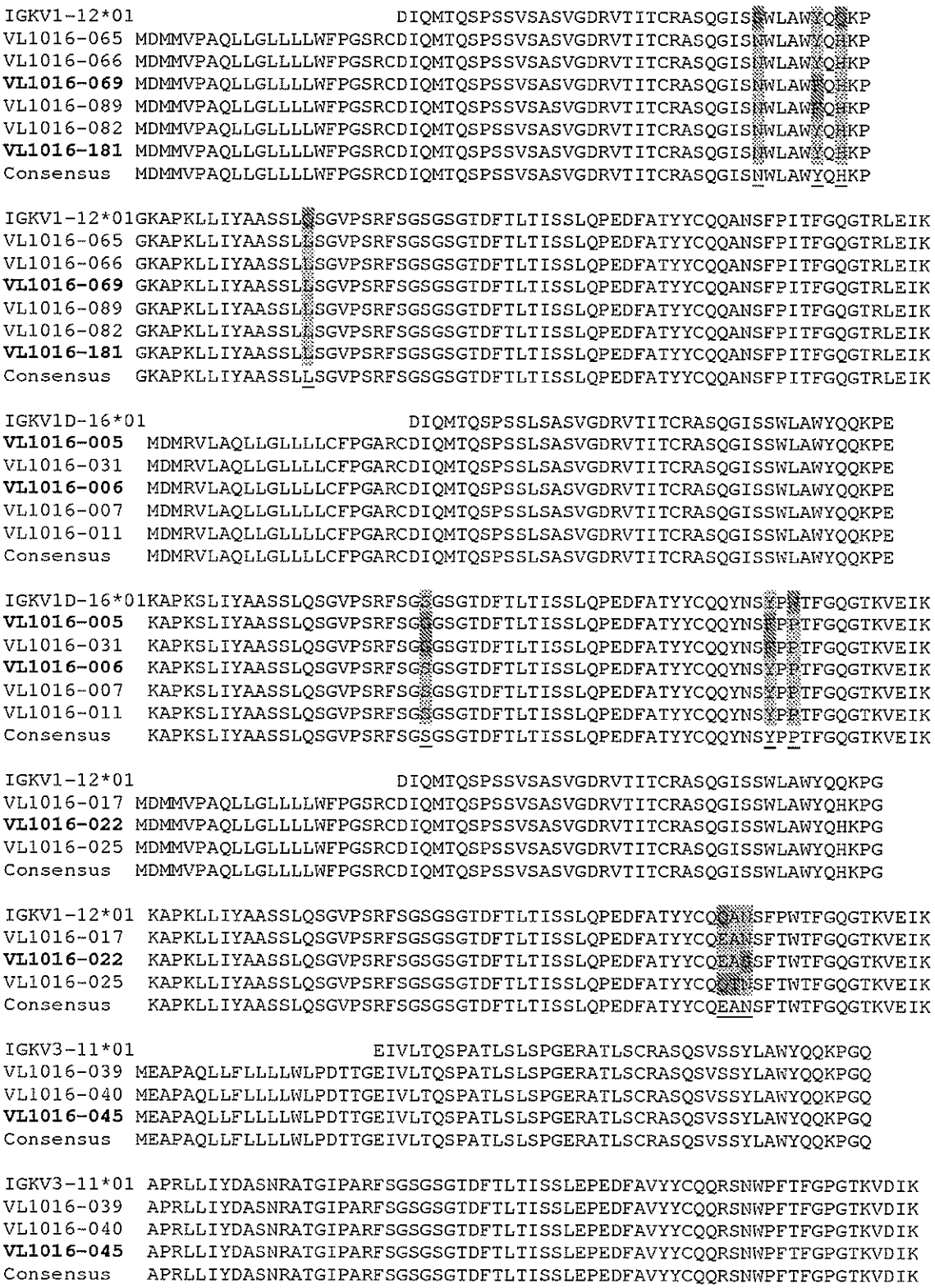

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VL1016-069 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISIWLAWTQHKP
VL1016-089 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISIWLAWTQHKP
VL1016-082 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISIWLAWYQHKP
VL1016-181 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISIWLAWLQHKP
Consensus MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISNWLAWYQHKP
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VL1016-066 GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
VL1016-069 GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
VL1016-089 GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
VL1016-082 GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
VL1016-181 GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
Consensus GKAPKLLIYAASSLLSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
IGKV1D-16*01 DIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
VL1016-005 MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
VL1016-031 MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
VL1016-006 MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
VL1016-007 MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
VL1016-011 MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
Consensus MDMRVLAQLLGLLLLCFPGARCDIQMTQSPSSLSASVGDRVTITCRASQGISSWLAWYQQKPE
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VL1016-005 KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
VL1016-031 KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
VL1016-006 KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
VL1016-007 KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
VL1016-011 KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
Consensus KAPKSLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQYNSYPFTFGQGTKVEIK
IGKV1-12*01 DIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQQKPG
VL1016-017 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
VL1016-022 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
VL1016-025 MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
Consensus MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
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VL1016-025 KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFTWTFGQGTKVEIK
Consensus KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQEANSFTWTFGQGTKVEIK
IGKV3-11*01 EIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQ
VL1016-039 MEAPAQLLFLLLLWLPDTTGEIVLTQSPATLSLSPGERATLSCRASQSVSSYLAWYQQKPGQ
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Figure 2 (continued)

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VL1016-068  MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
VL1016-084  MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG
Consensus   MDMMVPAQLLGLLLLWFPGSRCDIQMTQSPSSVSASVGDRVTITCRASQGISSWLAWYQHKPG

IGKV1-12*01 KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
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VL1016-062  KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANGFPITFGQGTRLEIK
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VL1016-068  KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
VL1016-084  KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANSFPITFGQGTRLEIK
Consensus   KAPKLLIYAASSLQSGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQANGFPITFGQGTRLEIK

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VL1016-035  KAPKLLIYDASSLESGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQFNSYPMTFGQGTKQEIK
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VL1016-095  KAPKLLIYDASSLESGVPSRFSGSGSGTDFTLTISSLQPEDFATYYCQQFNSYPLTFGGGTKVEIK
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Figure 3

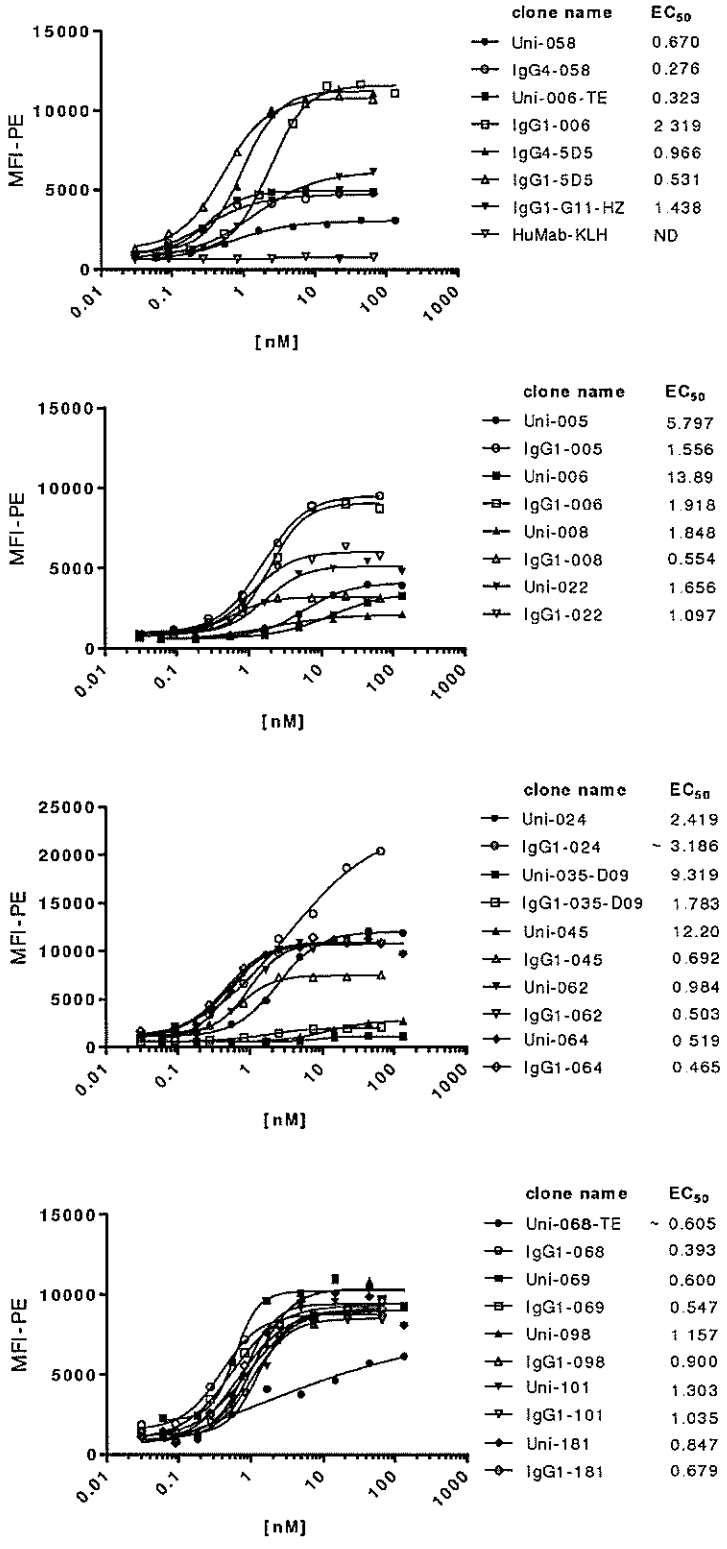

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clone name EC50
Uni-005 5.797
IgG1-005 1.556
Uni-006 13.89
IgG1-006 1.918
Uni-008 1.848
IgG1-008 0.554
Uni-022 1.656
IgG1-022 1.097
clone name EC50
Uni-024 2.419
IgG1-024 ~ 3.186
Uni-035-D09 9.319
IgG1-035-D09 1.783
Uni-045 12.20
IgG1-045 0.692
Uni-062 0.984
IgG1-062 0.503
Uni-064 0.519
IgG1-064 0.465
clone name EC50
Uni-068-TE ~ 0.605
IgG1-068 0.393
Uni-069 0.600
IgG1-069 0.547
Uni-098 1.157
IgG1-098 0.900
Uni-101 1.303
IgG1-101 1.035
Uni-181 0.847
IgG1-181 0.679
MFI-PE
[nM]
0.01
0.1
1
10
100
1000
0
5000
10000
15000
20000
25000

Figure 4

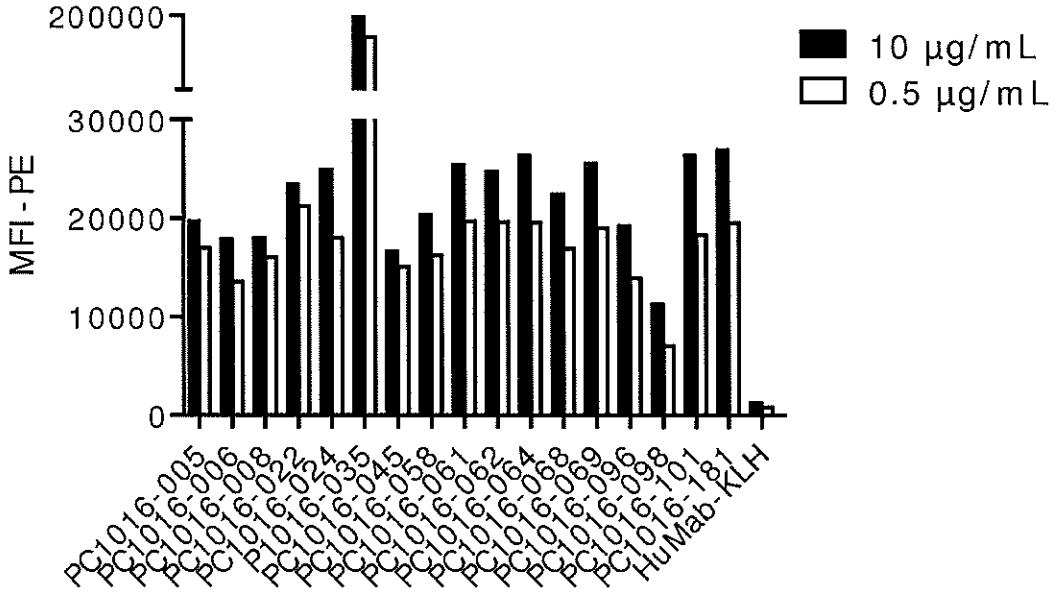
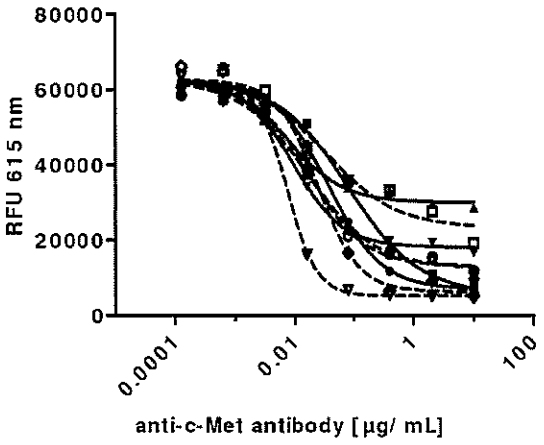
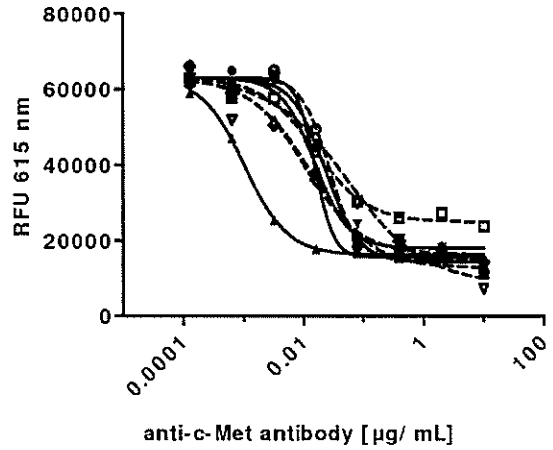

200000
30000
20000
10000
0
MFI-PE
10 µg/mL
0.5 µg/mL
PC1016-005
PC1016-006
PC1016-008
PC1016-022
PC1016-024
PC1016-035
PC1016-045
PC1016-058
PC1016-061
PC1016-062
PC1016-064
PC1016-068
PC1016-069
PC1016-096
PC1016-098
PC1016-101
PC1016-181
HuMab-KLH

Figure 5



	EC_{50}	Bottom
005	0.03616	6944
006	0.07994	5628
008	0.007878	30087
022	0.009265	18227
024	0.01684	13062
035	0.03484	23287
045	0.01646	12563
058	0.007270	5201
5D5	0.02435	6347

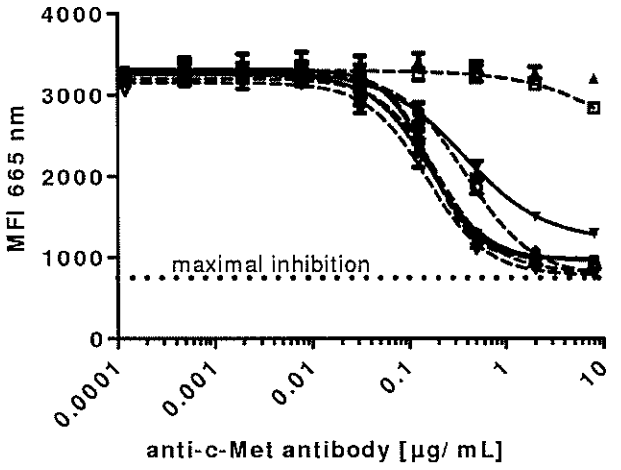
No HGF-Euopium $^{3+}$ ~600
No competing mAb ~66000



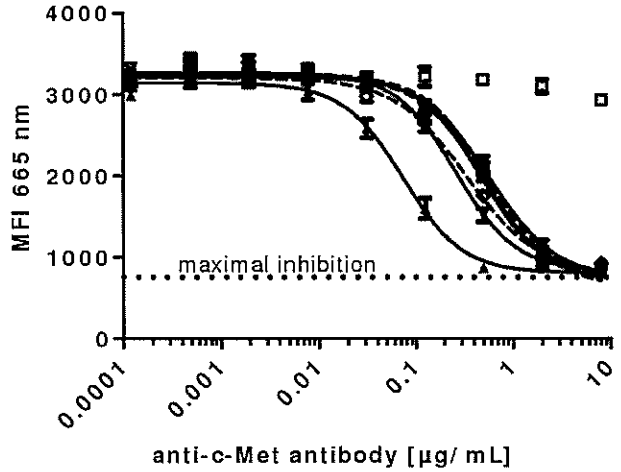
	EC_{50}	Bottom
061	0.01552	15583
062	0.02299	14276
064	0.001039	16172
068	0.01529	17943
069	0.02671	15028
096	0.01523	24849
098	0.01349	12699
101	0.05580	8380
181	0.01030	16255

No HGF-Euopium $^{3+}$ ~600
No competing mAb ~66000

Figure 6



	IC_{50}
005	0.1648
006	0.1619
008	ND
022	0.3687
024	0.3880
035	ND
045	0.1679
058	0.1534
5D5	0.1984



	IC_{50}
061	0.4882
062	0.5768
064	0.07363
068	0.2611
069	0.5360
096	ND
098	0.5526
101	0.5276
181	0.3368

Figure 7

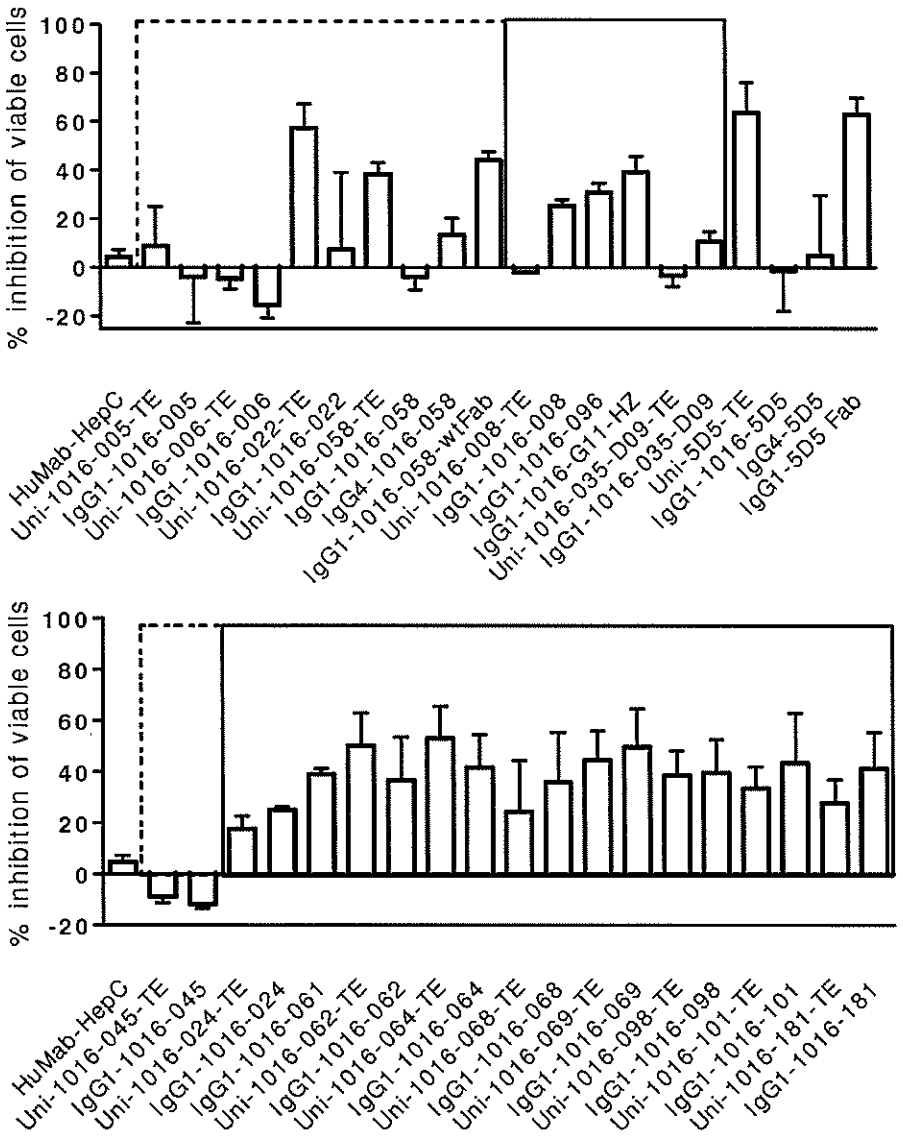

% inhibition of viable cells
100
80
60
40
20
0
-20
HuMab-HepC
Uni-1016-005-TE
IgG1-1016-005
Uni-1016-006-TE
IgG1-1016-006
Uni-1016-022-TE
IgG1-1016-022
Uni-1016-058-TE
IgG1-1016-058
IgG4-1016-058
IgG1-1016-058-wtFab
Uni-1016-008-TE
IgG1-1016-008
IgG1-1016-096
IgG1-1016-G11-HZ
Uni-1016-035-D09-TE
IgG1-1016-035-D09
Uni-5D5-TE
IgG1-1016-5D5
IgG4-5D5
IgG1-5D5 Fab
% inhibition of viable cells
100
80
60
40
20
0
-20
HuMab-HepC
Uni-1016-045-TE
IgG1-1016-045
Uni-1016-024-TE
IgG1-1016-024
IgG1-1016-061
Uni-1016-062-TE
IgG1-1016-062
Uni-1016-064-TE
IgG1-1016-064
Uni-1016-068-TE
IgG1-1016-068
Uni-1016-069-TE
IgG1-1016-069
Uni-1016-098-TE
IgG1-1016-098
Uni-1016-101-TE
IgG1-1016-101
Uni-1016-181-TE
IgG1-1016-181

Figure 8

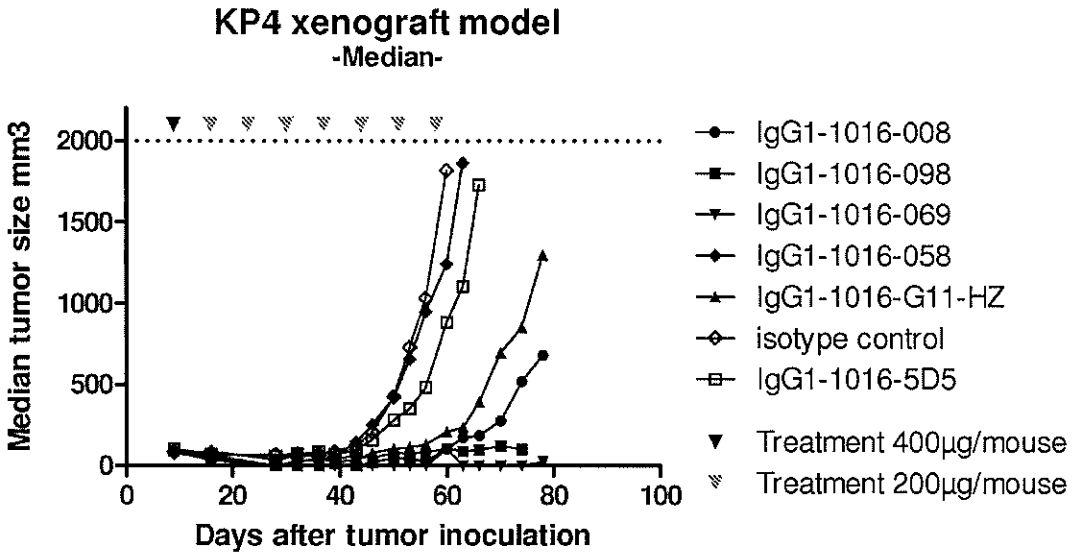

KP4 xenograft model
-Median-
Median tumor size mm3
2000
1500
1000
500
0
0
20
40
60
80
100
Days after tumor inoculation
IgG1-1016-008
IgG1-1016-098
IgG1-1016-069
IgG1-1016-058
IgG1-1016-G11-HZ
isotype control
IgG1-1016-5D5
Treatment 400µg/mouse
Treatment 200µg/mouse

Figure 9

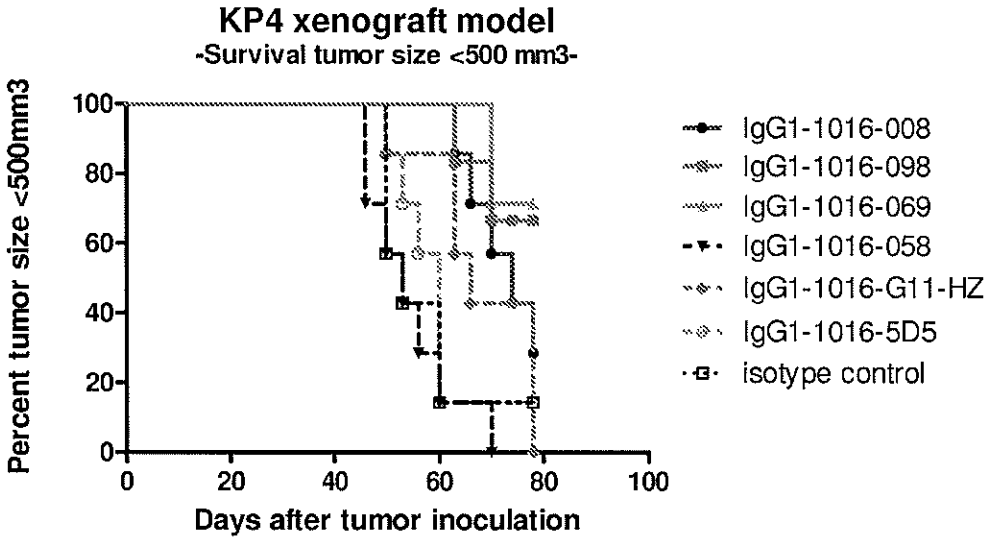

KP4 xenograft model
-Survival tumor size <500 mm3-
Percent tumor size <500mm3
100
80
60
40
20
0
0
20
40
60
80
100
Days after tumor inoculation
IgG1-1016-008
IgG1-1016-098
IgG1-1016-069
IgG1-1016-058
IgG1-1016-G11-HZ
IgG1-1016-5D5
isotype control

Figure 10

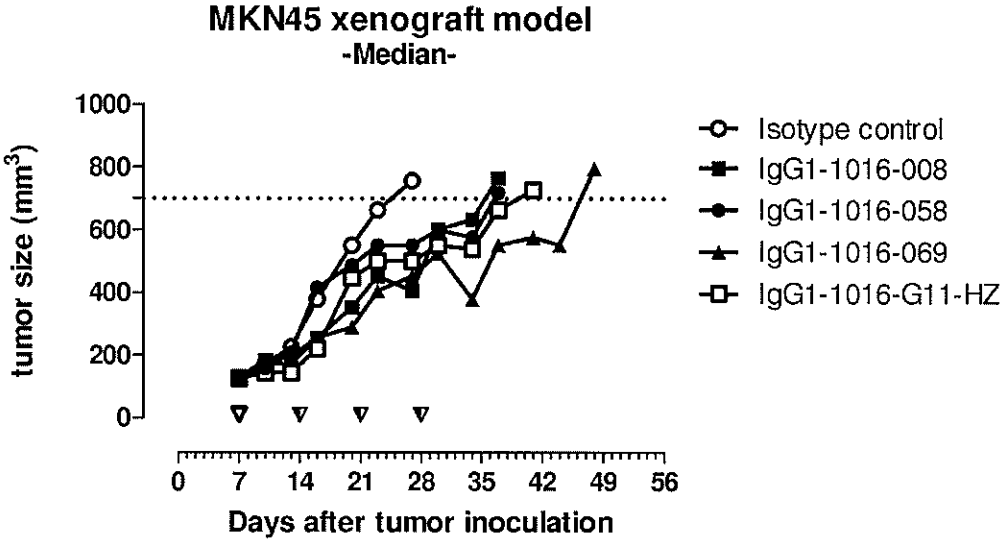

MKN45 xenograft model
-Median-
tumor size (mm3)
1000
800
600
400
200
0
0 7 14 21 28 35 42 49 56
Days after tumor inoculation
Isotype control
IgG1-1016-008
IgG1-1016-058
IgG1-1016-069
IgG1-1016-G11-HZ

Figure 11

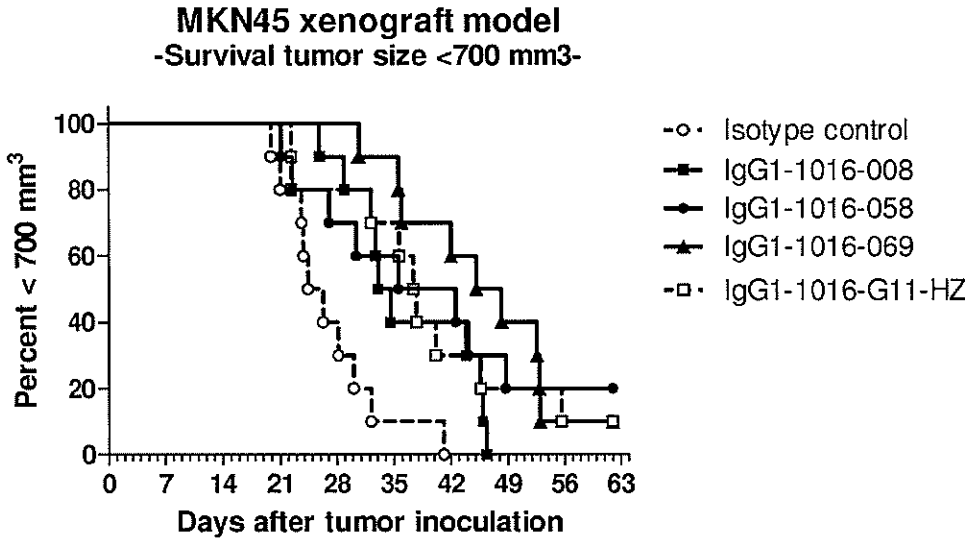

MKN45 xenograft model
-Survival tumor size <700 mm3-
Percent < 700 mm3
100
80
60
40
20
0
0 7 14 21 28 35 42 49 56 63
Days after tumor inoculation
Isotype control
IgG1-1016-008
IgG1-1016-058
IgG1-1016-069
IgG1-1016-G11-HZ

Figure 12

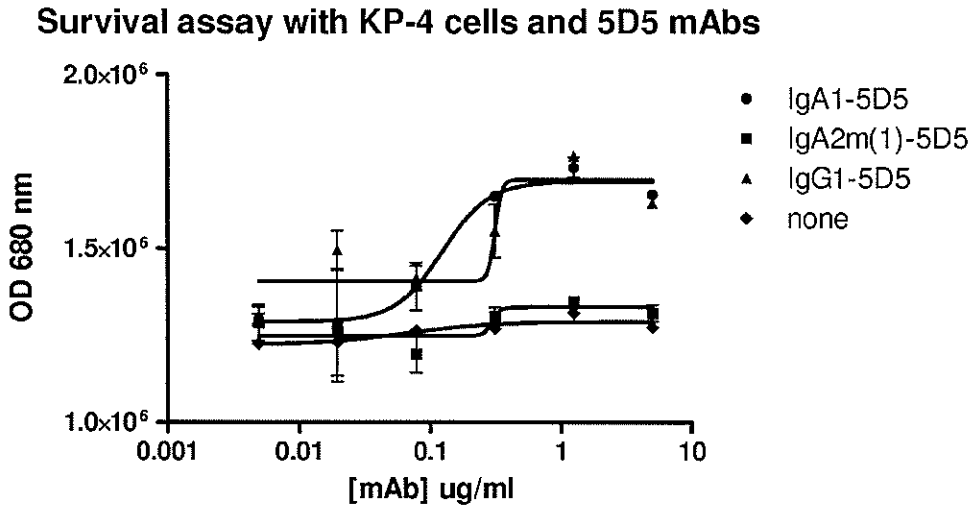

Survival assay with KP-4 cells and 5D5 mAbs
2.0x10⁶
1.5x10⁶
1.0x10⁶
OD 680 nm
0.001
0.01
0.1
1
10
[mAb] ug/ml
IgA1-5D5
IgA2m(1)-5D5
IgG1-5D5
none

Figure 13

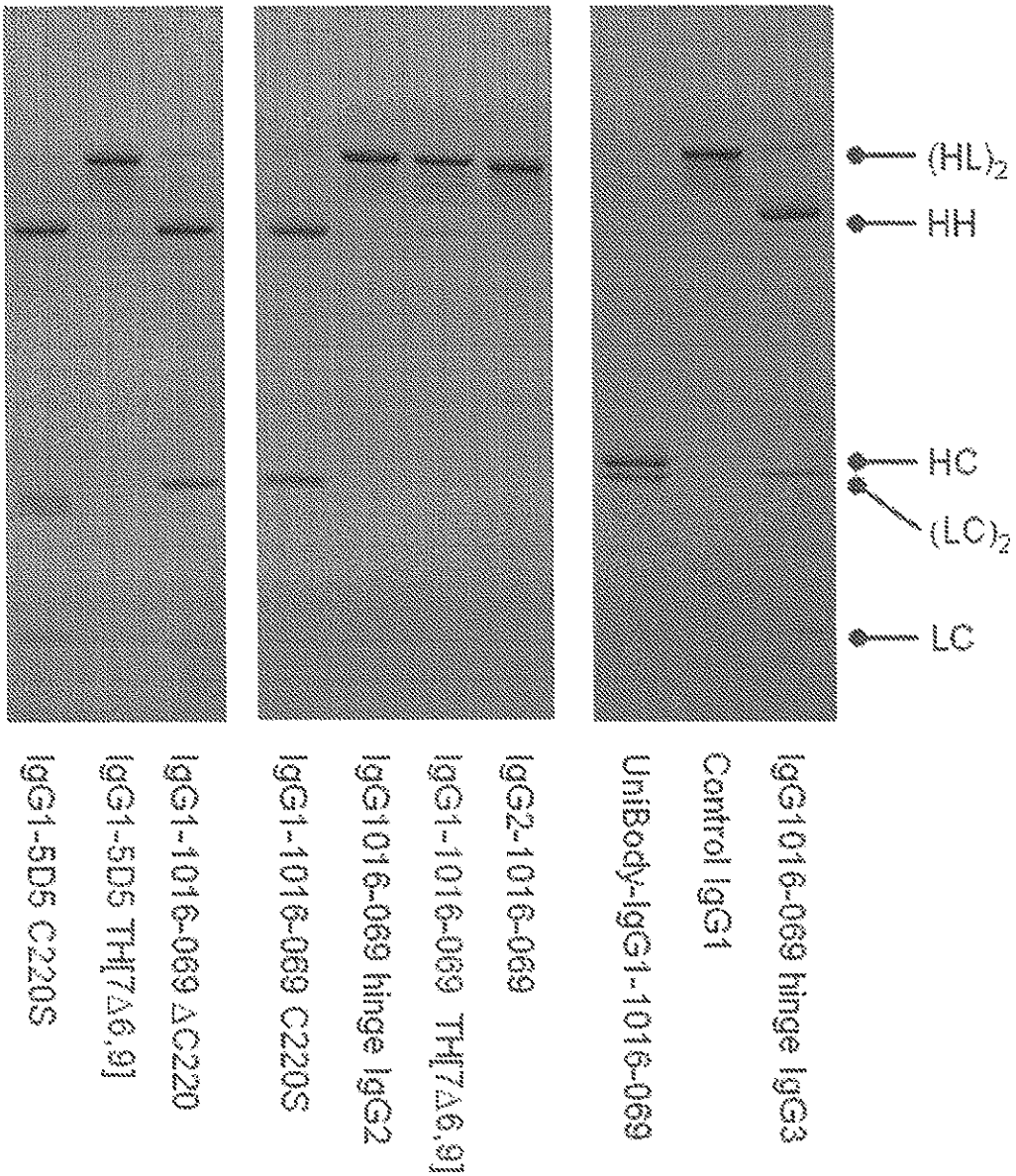

(HL)2
HH
HC
(LC)2
LC
IgG1016-069 hinge IgG3
UniBody-IgG1-1016-069
Control IgG1
IgG2-1016-069
IgG1-1016-089 THI7A6,61
IgG1016-069 hinge IgG2
IgG1-1016-089 C220S
IgG1-1016-089 ΔC220
IgG1-5D5 THI7A6,61
IgG1-5D5 C220S

Figure 14

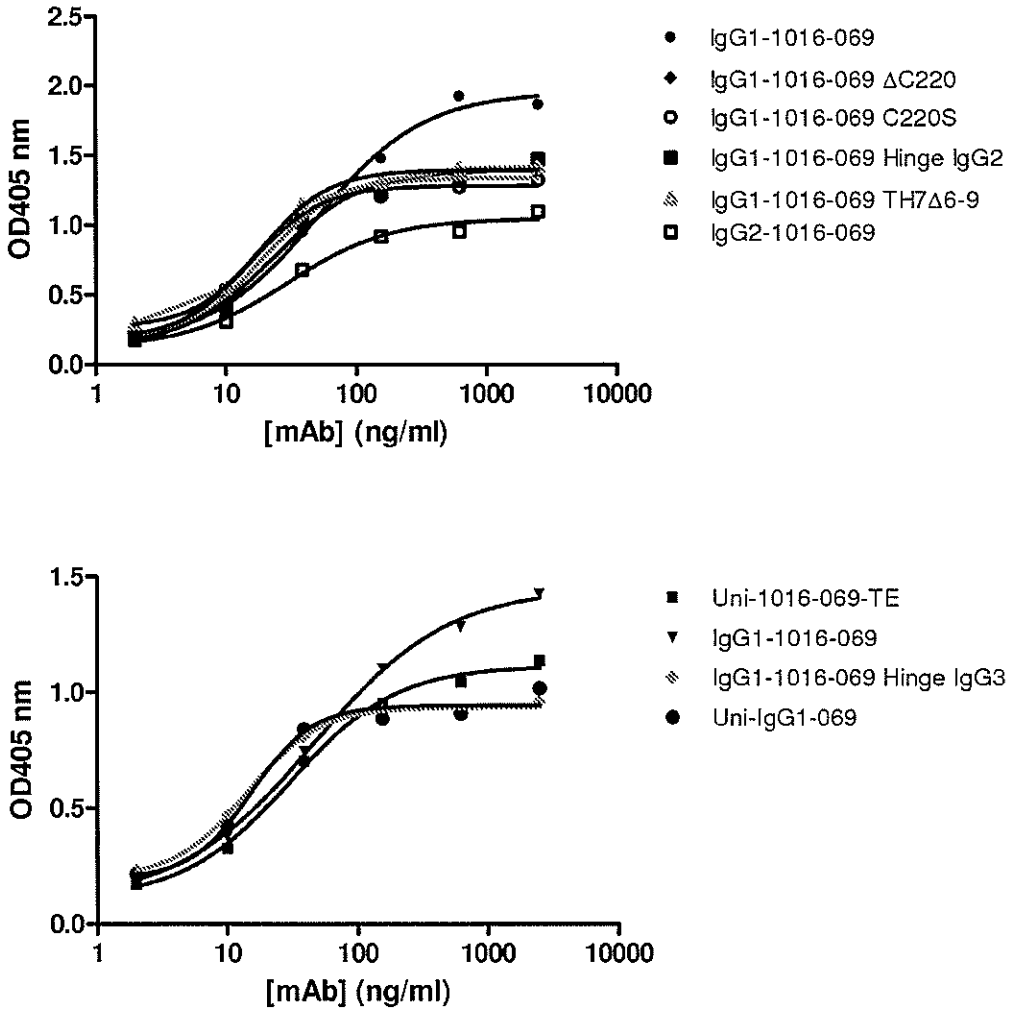

2.5
2.0
1.5
1.0
0.5
0.0
OD405 nm
1
10
100
1000
10000
[mAb] (ng/ml)
IgG1-1016-069
IgG1-1016-069 ΔC220
IgG1-1016-069 C220S
IgG1-1016-069 Hinge IgG2
IgG1-1016-069 TH7Δ6-9
IgG2-1016-069
1.5
1.0
0.5
0.0
OD405 nm
1
10
100
1000
10000
[mAb] (ng/ml)
Uni-1016-069-TE
IgG1-1016-069
IgG1-1016-069 Hinge IgG3
Uni-IgG1-069

Figure 15

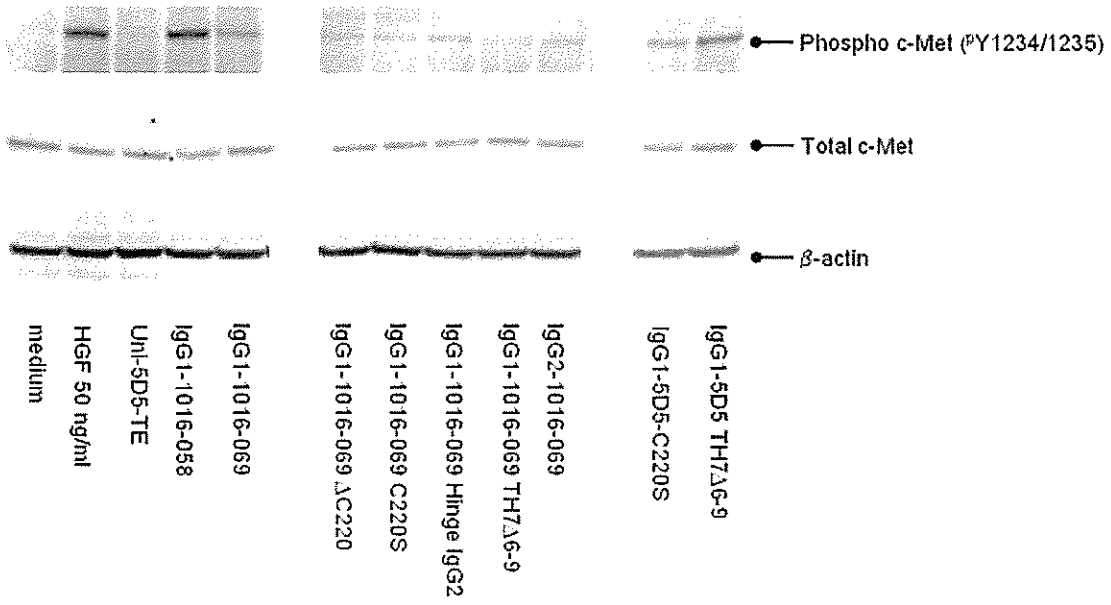

Phospho c-Met (PY1234/1235)
Total c-Met
β-actin
medium
HGF 50 ng/ml
Uni-5D5-TE
IgG1-1016-058
IgG1-1016-069
IgG1-1016-069 ΔC220
IgG1-1016-069 C220S
IgG1-1016-069 Hinge IgG2
IgG1-1016-069 TH7Δ6-9
IgG2-1016-069
IgG1-5D5-C220S
IgG1-5D5 TH7Δ6-9

Figure 16

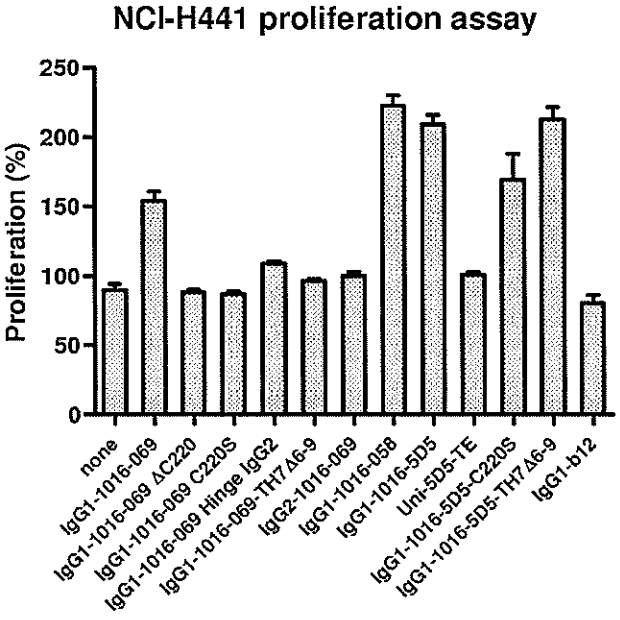

NCI-H441 proliferation assay
Proliferation (%)
250
200
150
100
50
0
none
IgG1-1016-069
IgG1-1016-069 ΔC220
IgG1-1016-069 C220S
IgG1-1016-069 Hinge IgG2
IgG1-1016-069-TH7Δ6-9
IgG2-1016-069
IgG1-1016-058
IgG1-1016-5D5
Uni-5D5-TE
IgG1-1016-5D5-C220S
IgG1-1016-5D5-TH7Δ6-9
IgG1-b12

Figure 17

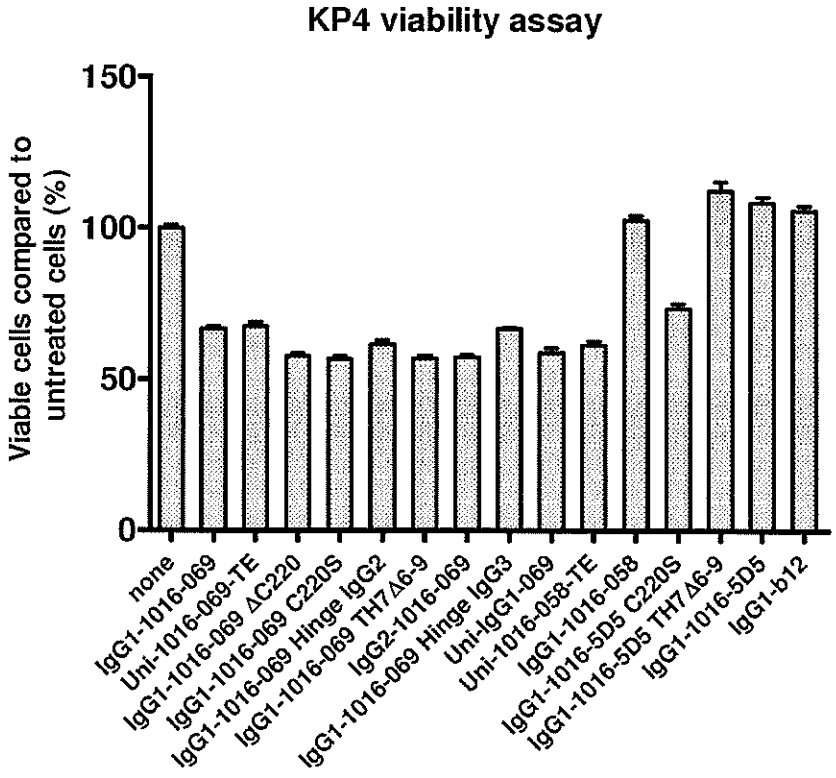

KP4 viability assay
Viable cells compared to untreated cells (%)
150
100
50
0
none
IgG1-1016-069
Uni-1016-069-TE
IgG1-1016-069 ΔC220
IgG1-1016-069 C220S
IgG1-1016-069 Hinge IgG2
IgG1-1016-069 TH7Δ6-9
IgG2-1016-069
IgG1-1016-069 Hinge IgG3
Uni-IgG1-069
Uni-1016-058-TE
IgG1-1016-058
IgG1-1016-5D5 C220S
IgG1-1016-5D5 TH7Δ6-9
IgG1-1016-5D5
IgG1-b12

Figure 18

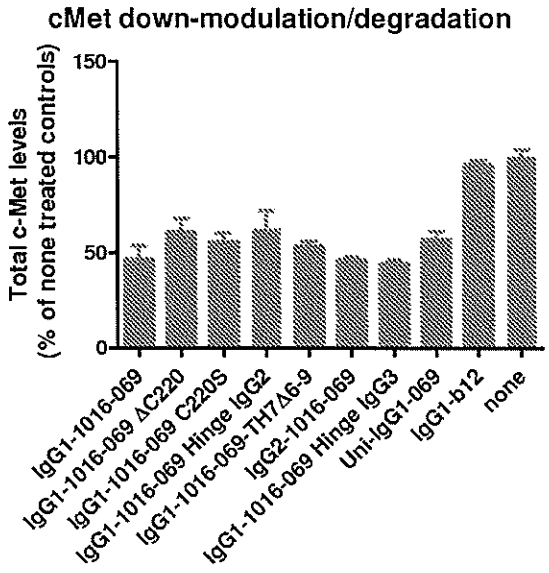

cMet down-modulation/degradation
Total c-Met levels
(% of none treated controls)
150
100
50
0
IgG1-1016-069
IgG1-1016-069 ΔC220
IgG1-1016-069 C220S
IgG1-1016-069 Hinge IgG2
IgG1-1016-069-TH7Δ6-9
IgG2-1016-069
IgG1-1016-069 Hinge IgG3
Uni-IgG1-069
IgG1-b12
none

Figure 19

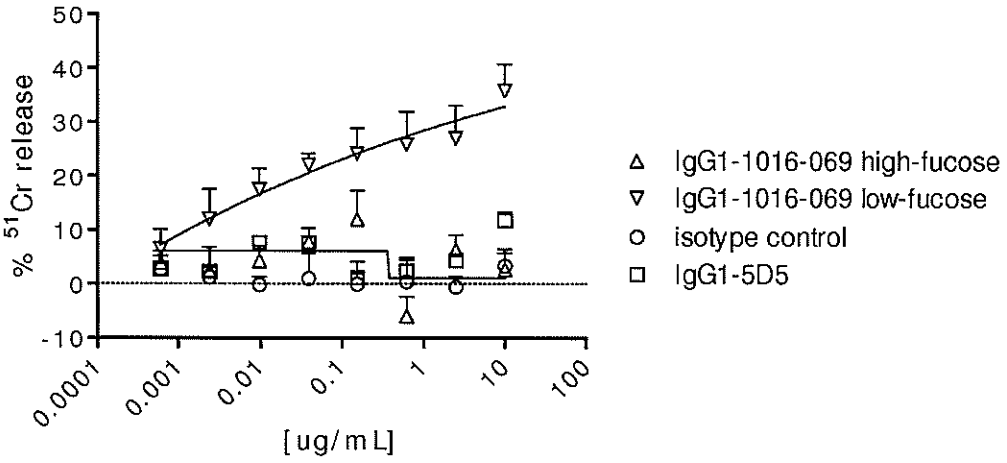
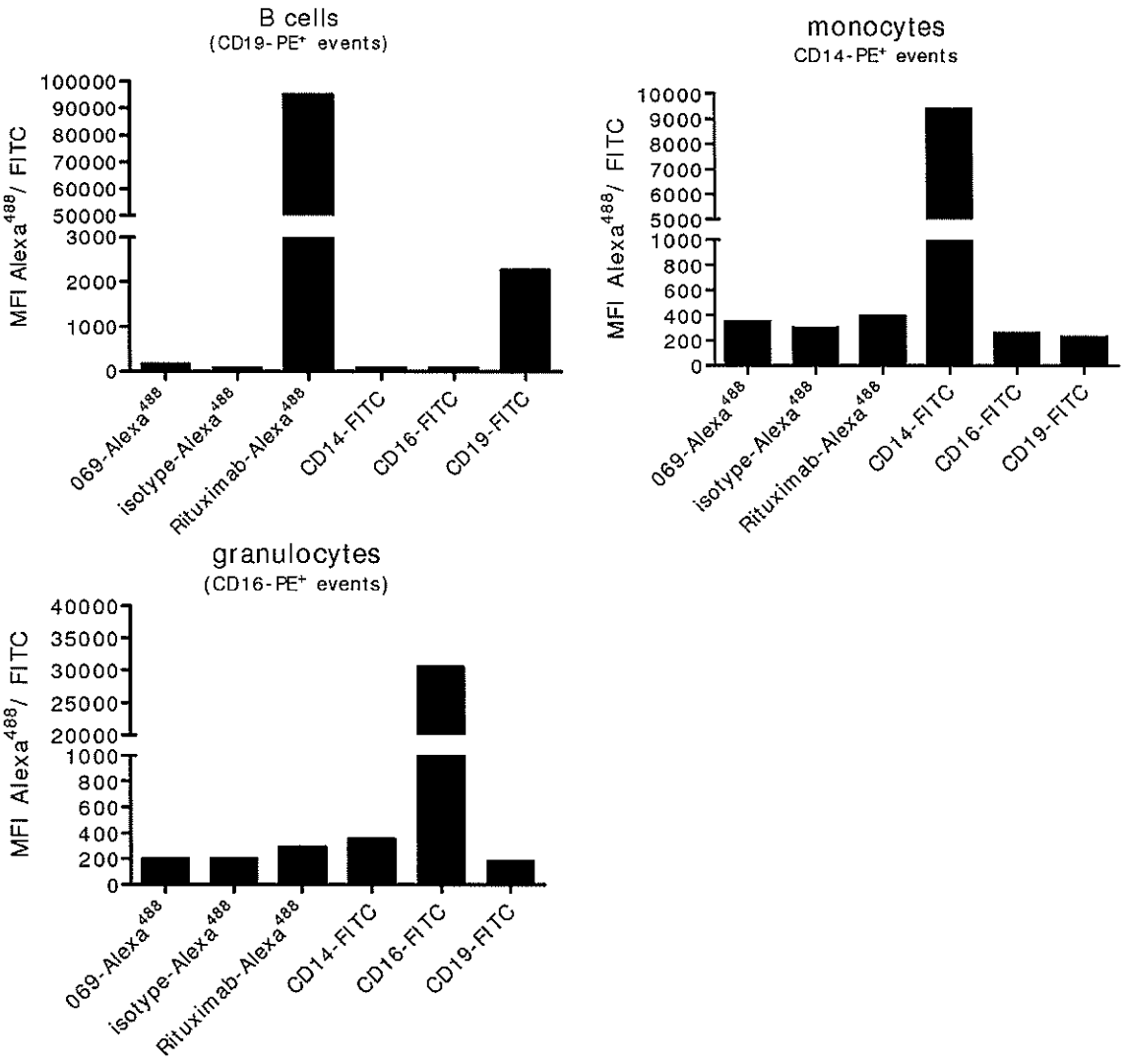

50
40
30
20
10
0
-10
% 51Cr release
0.0001
0.001
0.01
0.1
1
10
100
[ug/mL]
IgG1-1016-069 high-fucose
IgG1-1016-069 low-fucose
isotype control
IgG1-5D5

Figure 20


B cells
(CD19-PE+ events)
MFI Alexa488/ FITC
100000
90000
80000
70000
60000
50000
3000
2000
1000
0
069-Alexa488
isotype-Alexa488
Rituximab-Alexa488
CD14-FITC
CD16-FITC
CD19-FITC
monocytes
CD14-PE+ events
MFI Alexa488/ FITC
10000
9000
8000
7000
6000
5000
1000
800
600
400
200
0
069-Alexa488
isotype-Alexa488
Rituximab-Alexa488
CD14-FITC
CD16-FITC
CD19-FITC
granulocytes
(CD16-PE+ events)
MFI Alexa488/ FITC
40000
35000
30000
25000
20000
1000
800
600
400
200
0
069-Alexa488
isotype-Alexa488
Rituximab-Alexa488
CD14-FITC
CD16-FITC
CD19-FITC