

	118	128	138	148	158	168
B7-H4	ASTKGPSVFP	LAPCSRSTSE	STAALGCLVK	DYFPEPVTVS	WNSGALTSGV	HTFPAVLQSS
CD3	ASTKGPSVFP	LAPCSRSTSE	STAALGCLVK	DYFPEPVTVS	WNSGALTSGV	HTFPAVLQSS
IgG2	ASTKGPSVFP	LAPCSRSTSE	STAALGCLVK	DYFPEPVTVS	WNSGALTSGV	HTFPAVLQSS
IgG1	ASTKGPSVFP	LAPSSKSTSG	GTAALGCLVK	DYFPEPVTVS	WNSGALTSGV	HTFPAVLQSS
IgG4	ASTKGPSVFP	LAPCSRSTSE	STAALGCLVK	DYFPEPVTVS	WNSGALTSGV	HTFPAVLQSS
	178	188	198	208	218	<u>223</u> <u>225</u> <u>228</u> 231 237
B7-H4	GLYSLSSVVT	VPSSNFGTQT	YTCNVDHKPS	NTKVDKTVER	KC--- <u>EV</u> ECP <u>ECP</u>	APPVA- GPSVF
CD3	GLYSLSSVVT	VPSSNFGTQT	YTCNVDHKPS	NTKVDKTVER	KC--- <u>RV</u> <u>RCP</u> <u>RCP</u>	APPVA- GPSVF
IgG2	GLYSLSSVVT	VPSSNFGTQT	YTCNVDHKPS	NTKVDKTVER	KC--- CV ECP PCP	APPVA- GPSVF
IgG1	GLYSLSSVVT	VPSSSLGTQT	YICNVNHHKPS	NTKVDKKVEP	KSCDK TH TCP PCP	APELLG GPSVF
IgG4	GLYSLSSVVT	VPSSSLGTKT	YTCNVDHKPS	NTKVDKRVES	KY--- GP PCP SCP	APEFLG GPSVF
	242	252	265	272	282	292
B7-H4	LFPPKPKDTL	MISRTPEVTC	VVV <u>AV</u> SHEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTFR
CD3	LFPPKPKDTL	MISRTPEVTC	VVV <u>AV</u> SHEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTFR
IgG2	LFPPKPKDTL	MISRTPEVTC	VVVDVSHEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTFR
IgG1	LFPPKPKDTL	MISRTPEVTC	VVVDVSHEDP	EVKFNWYVDG	VEVHNAKTKP	REEQYNSTYR
IgG4	LFPPKPKDTL	MISRTPEVTC	VVVDVSQEDP	EVQFNWYVDG	VEVHNAKTKP	REEQFNSTYR
	302	312	322	330/331	342	352
B7-H4	VVSVLTVVHQ	DWLNGKEYKC	KVSNKGLP <u>SS</u>	IEKTISKTKG	QPREPQVYTL	PPSREEMTKN
CD3	VVSVLTVVHQ	DWLNGKEYKC	KVSNKGLP <u>SS</u>	IEKTISKTKG	QPREPQVYTL	PPSREEMTKN
IgG2	VVSVLTVVHQ	DWLNGKEYKC	KVSNKGLPAP	IEKTISKTKG	QPREPQVYTL	PPSREEMTKN
IgG1	VVSVLTVLHQ	DWLNGKEYKC	KVSNKALPAP	IEKTISKAKG	QPREPQVYTL	PPSRDELTKN
IgG4	VVSVLTVLHQ	DWLNGKEYKC	KVSNKGLPSS	IEKTISKAKG	QPREPQVYTL	PPSQEEMTKN
	362	372	382	392	402	409 412
B7-H4	QVSLTCE <u>EV</u> KG	FYPSDIAVEW	ESNGQPENNY	KTTPPMLDSD	GSFFLYSKLT	VDKSRWQQGN
CD3	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTPPMLDSD	GSFFLYS <u>RLT</u>	VDKSRWQQGN
IgG2	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTPPMLDSD	GSFFLYSKLT	VDKSRWQQGN
IgG1	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTPPVLDSD	GSFFLYSKLT	VDKSRWQQGN
IgG4	QVSLTCLVKG	FYPSDIAVEW	ESNGQPENNY	KTTPPVLDSD	GSFFLYSRLT	VDKSRWQEGN
	4	22	432	442	<u>Double underline</u>	
B7-H4	VFSCSVMHEA	LHNHYTQKSL	SLSPGK	SEQ ID NO: 177	heterodimer stabilization mutations	
CD3	VFSCSVMHEA	LHNHYTQKSL	SLSPGK	SEQ ID NO: 178		
IgG2	VFSCSVMHEA	LHNHYTQKSL	SLSPGK	SEQ ID NO: 208		
IgG1	VFSCSVMHEA	LHNHYTQKSL	SLSPGK	SEQ ID NO: 209	<u>Single underline</u>	
IgG4	VFSCSVMHEA	LHNHYTQKSL	SLSLGK	SEQ ID NO: 210	Fc effector mutations	

FIG. 2A

Crystal structure of B7-H4 antibody 0052 scFv complexed with B7-H4 ECD

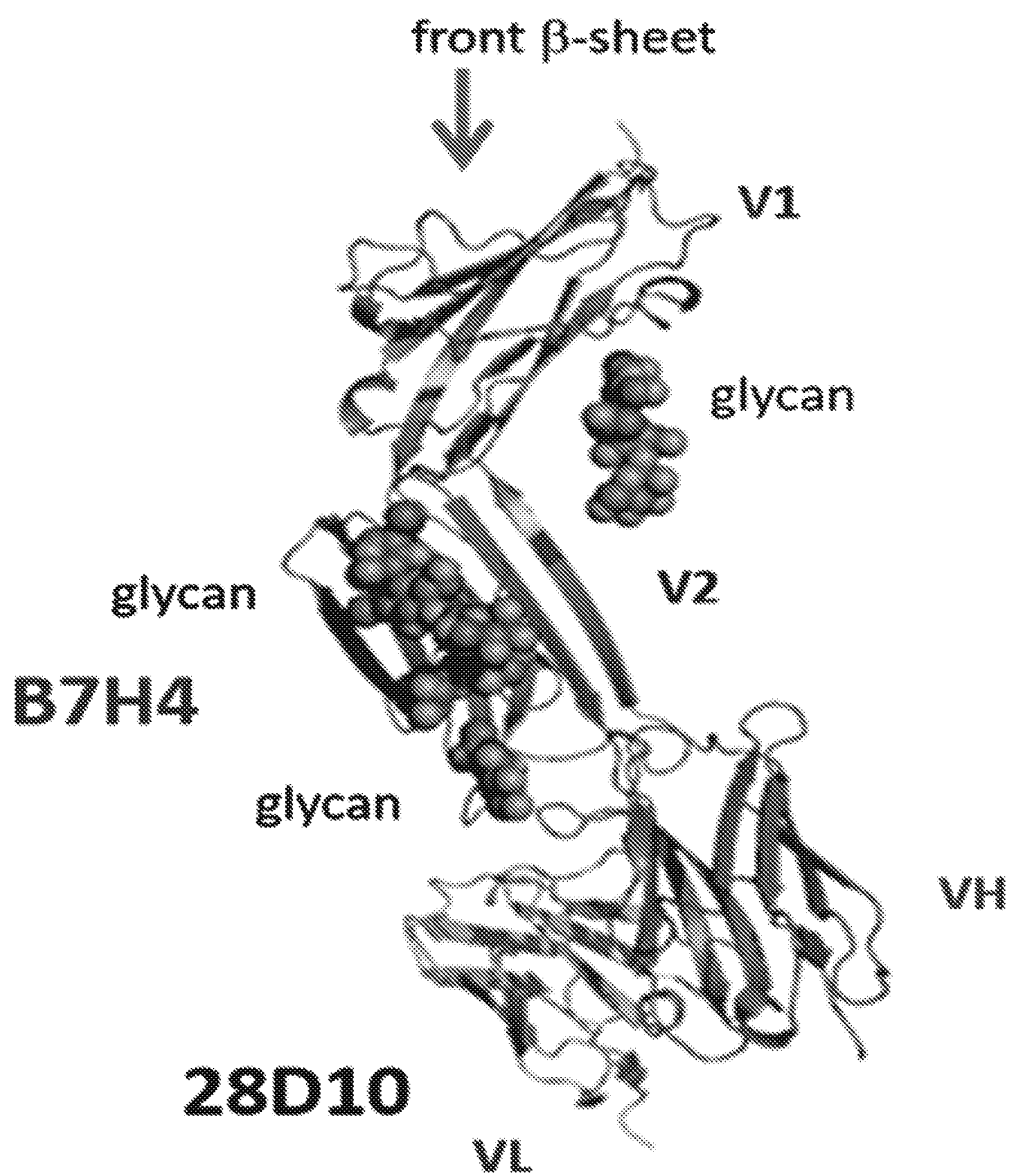


FIG. 2B

Crystal structure of B7-H4 antibody 0058 Fab complexed with B7-H4 ECD

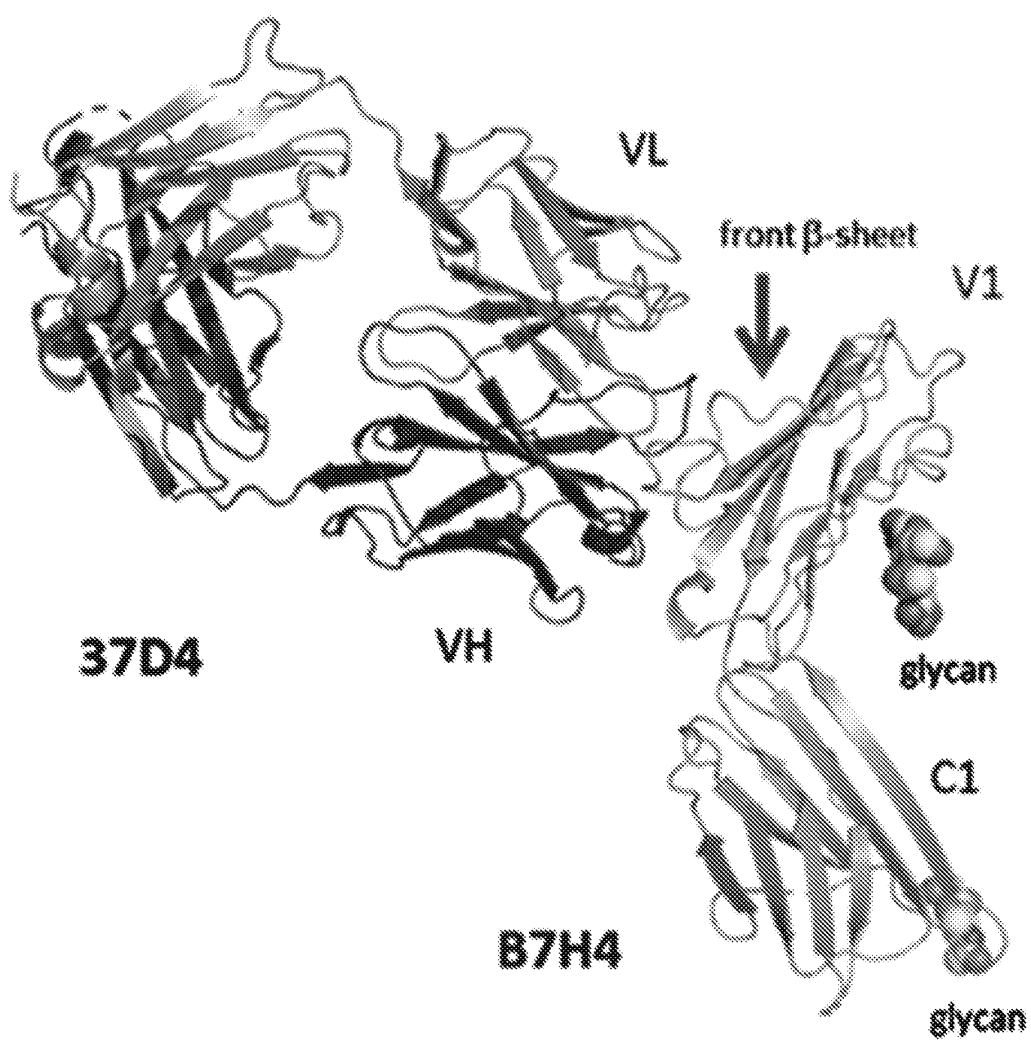


FIG. 2C

Crystal structure of B7-H4 antibody 1114 Fab complexed with B7-H4 ECD

