

List of AR3X heavy chain (chain H)-E2ecto _{b09} (chain C) interface residues (the residues on each row are not matched interactive partners)					
Heavy chain	Bond	BSA (Å ²)	E2ecto _{b09}	Bond	BSA (Å ²)
H:SER 30		13	C:TRP 420		17
H:SER 31		30	C:ILE 422		56
H:PHE 32		27	C:THR 425		11
H:PHE 52		16	C:LEU 427		74
H:ALA 52b		6	C:ASN 428		12
H:PRO 52c	H	73	C:CYS 429	H	30
H:GLY 52d		16	C:ASN 430	H	21
H:PRO 52e	H	32	C:ASP 431	H	27
H:GLU 52f		24	C:SER 432		22
H:ARG 52g	H	162	C:HIS 434	S	133
H:TRP 52i	H	114	C:THR 435		1
H:LEU 52j		74	C:GLY 436		23
H:ILE 52m		47	C:LEU 438		48
H:ASN 52n	H	30	C:ALA 439		60
H:PRO 52o		1	C:ALA 440	H	7
H:ILE 53		4	C:LEU 441		16
H:ARG 94		22	C:PHE 442	H	142
H:ASN 96	H	37	C:TYR 443	H	156
H:PHE 98		79	C:THR 444	H	77
H:ARG 99	H	81	C:HIS 445	H	45
H:TYR 100		23	C:LYS 446		2
H:CYS 100a	H	75	C:PRO 505		11
H:ARG 100b	S	45	C:TRP 529		63
H:GLY 100c		58	C:GLU 531	S	57
H:GLY 100d		32	C:PRO 612	H	18
H:CYS 100f		10	C:TYR 613	H	52
H:GLY 100i		4	C:LEU 615		6
H:ASP 101	S	20	C:TRP 616		6
Total		1155			1191
Hydrogen bonds					
##	Heavy chain	Distance (Å)	E2ecto _{b09}		
1	H:PRO 52c[O]	3.8	C:HIS 445[ND1]		
2	H:PRO 52e[O]	3.0	C:THR 444[N]		
3	H:ARG 99[O]	2.8	C:ASP 431[N]		
4	H:CYS 100a[O]	3.1	C:CYS 429[N]		
5	H:CYS 100a[N]	2.9	C:CYS 429[O]		
6	H:ARG 99[NH1]	2.7	C:ASN 430[OD1]		
7	H:ASN 96[ND2]	3.9	C:ASP 431[OD2]		
8	H:ARG 52g[NE]	3.8	C:ALA 440[O]		
9	H:ARG 52g[N]	2.8	C:PHE 442[O]		
10	H:ARG 52g[NE]	3.4	C:TYR 443[O]		
11	H:ASN 52n[ND2]	3.1	C:TYR 443[OH]		
12	H:ARG 52g[NH1]	3.0	C:PRO 612[O]		
13	H:TRP 52i[NE1]	2.9	C:TYR 613[OH]		
Salt bridges					
##	Heavy chain	Distance (Å)	E2core _{1a53}		
1	H:ASP 101[OD1]	3.6	C:HIS 434[NE2]		
2	H:ASP 101[OD2]	3.9	C:HIS 434[NE2]		
3	H:ARG 100b[NH1]	4.0	C:GLU 531[OE1]		

List of AR3X light chain (chain L)-E2ecto _{b09} (chain C) interface residues (the residues on each row are not matched interactive partners)					
Light chain	Bond	BSA (Å ²)	E2ecto _{b09}	Bond	BSA (Å ²)
L:LEU 46		1	C:SER 432		7
L:TYR 49		1	C:HIS 434		6
L:PRO 56		10			
Total		12	Total		13

AR3X heavy chain (H) and light chain (L) residues interacting with E2ecto _{b09} glycans (chain C) (interactive partners are grouped together)					
Ab chain	Bond	BSA (Å ²)	E2ecto _{b09}	Bond	BSA (Å ²)
H:ARG 99	H	33	C:NAG4301	H	71
H:TYR 100		26			
H:ILE 52m		3	C:NAG4231	H	30
H:GLY 100c	H	15			
H:GLY 100d		10			
L:TYR 49		11	C:NAG4301		11
H:GLY 100d		4	C:NAG4232		8
H:SER 100e		3			
Total		106	Total		119

* Type of putative interaction: H - hydrogen bond, S - salt bridge. BSA: buried surface area, Å².

Figure 4 –
figure supplement 2