SUPPLEMENTAL TABLE I

	Molecule	Vector	Sense/ Antisense	Sequence 5' 3'	Cloning sites	Template	Reference
1	CD300c FL	pCDNA3.1/V5-His TOPO	Sense	TGCTGGGAGGAGACTACA	-	Human spleen cDNA library	-
2			Antisense	GGAGGCTCACAAAGGATT	-		
3	CD300c WT	pDisplay	Sense	CCTAGATCTACCGTGGCGGGCCCCGTGGGG	BglII	pCDNA3.1-CD300c FL	-
4			Antisense	GCCGTCGACCTACTGGTTCTCACCCTTGGG	SalI		
5	CD300c E191V	pDisplay	Sense	CTCCTGGTCCTCTTGG**T**GCTGCCCCTGCTCCTG	-	pDisplay-CD300c WT	-
6			Antisense	CAGGAGCAGGGGCAGC**A**CCAAGAGGACCAG	-		
7	CD300c Δcyto	pDisplay	Sense	Oligo 3	BglII	pDisplay-CD300c WT	-
8			Antisense	GCCGTCGACCTAAGGTCTGTTCACCCA	SalI		
9	CD300c ΔIg	pDisplay	Sense	CCTAGATCTCCGGCCGGGACGACCACA	BglII	pDisplay-CD300c WT	-
10			Antisense	Oligo 4	SalI		
11	CD300c WT	pBabePuro-2×Myc	Sense	CTGGAATTCACCGTGGCGGGCCCCGTG	EcoRI	pDisplay-CD300c WT	-
12	CD300c E191V		Antisense	Oligo 4	SalI	pDisplay-CD300c E191V	-
13	CD300c Δcyto	pBabePuro-2×Myc	Sense	Oligo 11	EcoRI	pDisplay-CD300c Δcyto	-
14			Antisense	Oligo 8	SalI		
15	CD300c WT	pCDNA3-FLAG	Sense	CTGGAATTCGGACCGTGGCGGGCCCCGTG	EcoRI	pDisplay-CD300c WT	-
16			Antisense	CTGCTCGAGCTACTGGTTCTCACCCTT	XhoI		-
17	HA-CD300c (Soluble)	pEXP5-CT-TOPO	Sense	ATGGGTGCGTATCCATATGATGTTCCAGAT	-	pDisplay-CD300c WT	-
18			Antisense	CGCCTAGCGGACATTGCTGAACAGGGA	-		
19	CD300b WT	pCDNA3-FLAG	Sense	CTGGGATCCCAAGGCCCAGAGTCTGTG	BamHI	pDisplay-CD300b WT	(19)
20	CD300b K158L		Antisense	CTGGAATTCCTAAGTGGCCATGTCTTT	EcoRI		
21	CD300b ΔCyto	pCDNA3-FLAG	Sense	Oligo 19	BamHI	pDisplay-CD300b Δ1	(19)
22			Antisense	GCCGTCGACCTACCTCTGAGACCCCTTCAA	SalI (XhoI)		
23	CD300b C50G	pCDNA3-FLAG	Sense	CATTAAGTGGTGG**G**GCCGAGGGGTGCG	-	pCDNA3-FLAG-CD300b WT	-
24			Antisense	CGCACCCCTCGGC**C**CCACCACTTAATG	-		-
25	CD300b W103G	pCDNA3-FLAG	Sense	CGCAGATGTTTAC**G**GGTGTGGGATTGAAAG	-	pCDNA3-FLAG-CD300b WT	-
26			Antisense	CTTTCAATCCCACACC**C**GTAAACATCTGCG	-		-
27	CD300b W55,103G	pCDNA3-FLAG	Sense	CCGAGGGGTGCGC**G**GGGATACATGCAAGAT	-	pCDNA3-FLAG-CD300b W103G	-
28			Antisense	ATCTTGCATGTATCCC**C**GCGCACCCCTCGG	-		-
29	CD300b W55,103G-D112M	pCDNA3-FLAG	Sense	AAGAAGAGGACCT**ATG**CTTGGGACTCAAGT	-	pCDNA3-FLAG-CD300b W55,103G	-
30			Antisense	ACTTGAGTCCCAAG**CAT**AGGTCCTCTTCTT	-		-
31	CD300b W55,103G-Q63S-D112M	pCDNA3-FLAG	Sense	CAAGATCCTCATT**TC**AACCAGAGGGTCGGA	-	pCDNA3-FLAG-CD300b W55,103G-D112M	-
32			Antisense	TCCGACCCTCTGGTT**GA**AATGAGGATCTTG	-		-
33	CD300b ΔIg	pCDNA3-FLAG pDisplay	Sense	CTGGGATCCCCAGAGGGAGCGGCTTCC	BamHI (BglII)	pDisplay-CD300b WT	(19)
34			Antisense	Oligo 20	EcoRI		
35	FLAG-CD300b (Soluble)	pEXP5-CT-TOPO	Sense	ATGGGTGCGGATTACAAGGACGATGACGAC	-	pCDNA3-FLAG-CD300b WT	-
36			Antisense	CGCCTAGTAGTGGTTCCTCTTGTGGGA	-		
37	CD300e WT	pCDNA3-FLAG	Sense	CCTGAATTCTTTCAGGCTGTTTGTCTCTG	EcoRI	pDisplay-CD300e WT	(20)
38			Antisense	GGACTCGAGCTATCTTCCAGGAGGAGC	XhoI		
39	CD300f WT	pCDNA3-FLAG	Sense	CCTAGATCTGGCTACTCCATTGCCACTCAA	BglII (BamHI)	pDisplay-CD300f WT	(18)
40			Antisense	GCCGTCGACCTAAGGCCTGCTGATGGTGCTGTATTC	SalI (XhoI)		
41	CD300f WT	pBabePuro-2×Myc	Sense	GCCGAATTCGGCTACTCCATTGCCACTCAA	EcoRI	pDisplay-CD300f WT	(18)
42			Antisense	Oligo 40	SalI		
43	HA-CD300f (Soluble)	pEXP5-CT-TOPO	Sense	Oligo 17	-	pDisplay-CD300f WT	(18)
44			Antisense	CGCCTAACTGAGCTTCAAGAGCTTGTG	-		
45	Rat CD300b FL	pCDNA3.1/V5-His TOPO	Sense	AAGAGGTGCAGAGTGGGAAG	-	PBMC cDNA	-
46			Antisense	AGGGAAGGCTCTGCTTATCC	-		-
47	Rat CD300b WT	pDisplay	Sense	CCTAGATCTCAAGGCCCAGAATTGGTGAGG	BglII	pCDNA3.1-Rat CD300b FL	-
48			Antisense	GCCCTGCAGCTAAGGAGAAATGTCTTTAGC	PstI		-
49	CD300a FL	pCDNA3.1/V5-His TOPO	Sense	GCACCAAGAAAAGCAGAA	-	PHA-activated PBMC cDNA library	-
50			Antisense	GGCAGGACAAAAGCCTAT	-		
51	CD300a WT	pDisplay pcDNA3-FLAG	Sense	CCTAGATCTAGCAAATGCAGGACCGTGGCG	BglII (BamHI)	pCDNA3.1-CD300a FL	-
52			Antisense	GCCGTCGACCTATGTCTTCCTTATCACACT	SalI (XhoI)		
53	TREM1 FL	pCDNA3.1/V5-His TOPO	Sense	GCTGGTGCACAGGAAGGATG	-	Purified human monocytes cDNA	-
54			Antisense	GGCTGGAAGTCAGAGGACATT	-		
55	TREM1 WT	pcDNA3-FLAG	Sense	CCTAGATCTGCAACTAAATTAACTGAG	BglII	pCDNA3.1-TREM1 FL	-
56			Antisense	GCCGTCGACCTAGGGTACAAATGACCT	SalI		
57	FLAG-TREM1 (Soluble)	pEXP5-CT-TOPO	Sense	Oligo 35	-	pcDNA3-FLAG-TREM1 WT	-
58			Antisense	CGCCTACCTGATGATATCTGTCACATT	-		

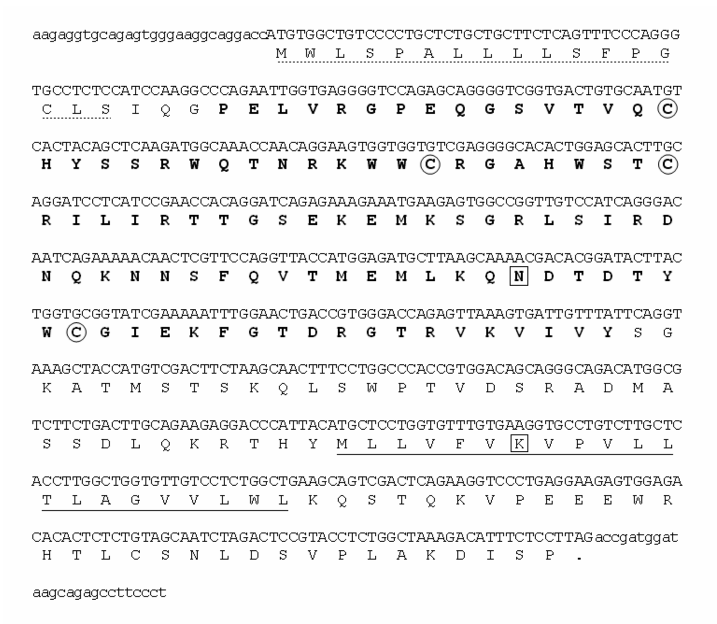
59	CD28 Full Length	pCDNA3.1/V5-His TOPO	Sense	TTCAGTTCCCCTCACACTTCGGGT	-	PBMC cDNA	-
60			Antisense	TGGCGGTCATTTCCTATCCAGAGC	-		
61	CD28 WT	pcDNA3-FLAG	Sense	CCTAGATCTATTTTGGTGAAGCAGTCG	BglII	pCDNA3.1-CD28 FL	-
62			Antisense	GCCGTCGACTCAGGAGCGATAGGCTGC	SalI		
63	FcεRγ	pcDNA3-FLAG	Sense	CTGGGATCCGGAGAGCCTCAGCTCTGC	BamHI	pFLAG-CMV2- FcεRγ	(20)
64			Antisense	GCCGAATTCCTACTGTGGTGGTTTCTC	EcoRI		
65	siRNA FcεRγ 1	pSilencer2.1-U6Hygro	Sense	GATCCGATCCAGGTCCGAAAGGCATTCAAGAGATGCCTTTCGGACCTGGATCTTTTTTGGAAA	-	-	-
66			Antisense	AGCTTTTCCAAAAAAGATCCAGGTCCGAAAGGCATCTCTTGAATGCCTTTCGGACCTGGATCG	-	-	-
67	siRNA FcεRγ 4	pSilencer2.1-U6Hygro	Sense	GATCCACATGAGAAACCACCCCAATTCAAGAGATTGGGGTGGTTTCTCATGTTTTTTTGGAAA	-	-	-
68			Antisense	AGCTTTTCCAAAAAAACATGAGAAACCACCCCAATCTCTTGAATTGGGGTGGTTTCTCATGTG	-	-	-

Table 1: Constructions used in this study. Oligonucleotides used for product amplification and templates are listed. Nucleotide changes introduced in the sequence for amino acid substitution are shown in bold letters. Restriction sites used for cloning are underlined. Compatible restriction sites in the vector when used are in parenthesis.

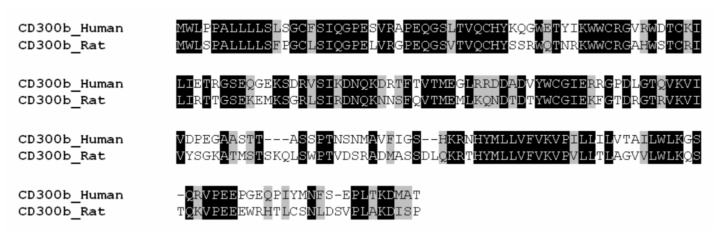
SUPPLEMENTAL FIGURES

Figure 1

A)

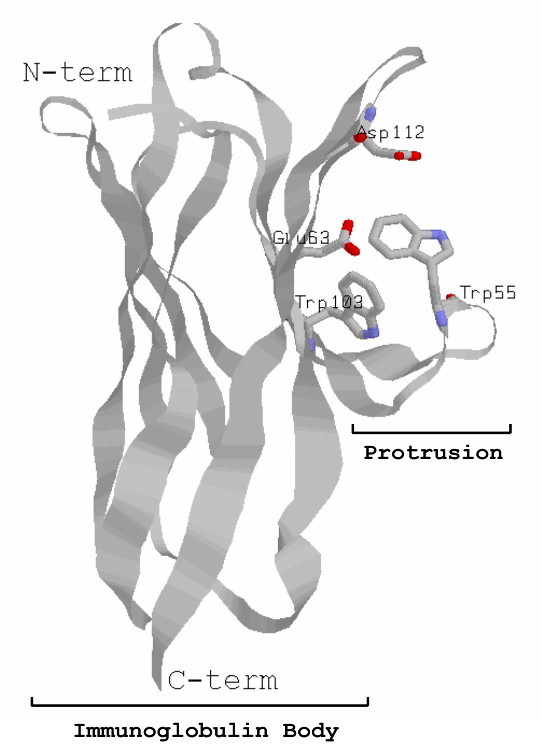


B)



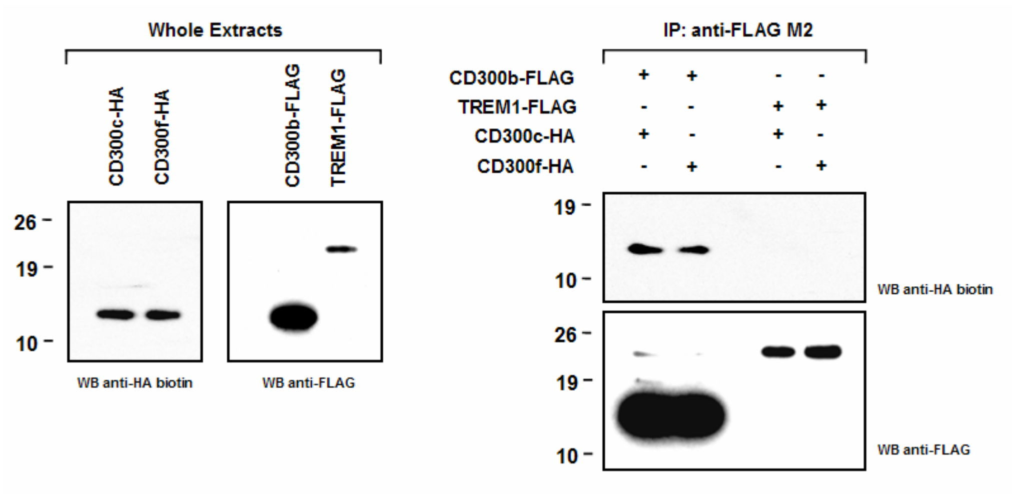
Supplemental Figure 1. A) Nucleotide and predicted amino acid sequence of rat CD300b (GU054494). The nucleotide sequence of rat CD300b containing an open reading frame of 627 bp is shown in upper case. The 5' and 3' untranslated regions are shown in lower case. The predicted amino acid sequence is shown below the nucleotide sequence. The signal peptide is underlined (dotted line). The Ig-like domain is marked in bold and the transmembrane domain is underlined (single line). Cysteine resides involved in the Ig-like domain fold are circled. N-glycosylation sites in the Ig-fold and the charged lysine in the transmembrane domain are boxed. **B) Sequence alignment of CD300b with its rat ortholog.** The entire molecule is represented. Identical amino acids and conservative changes are shown on black and grey backgrounds respectively.

Figure 2



Supplemental Figure 2. CD300b immunoglobulin domain structure. A structural model of CD300b Ig domain was obtained using CD300f and CLM-1 molecules as template. Strand representation. Crystallized members of CD300 family have shown that the V-set Ig fold is composed by a main immunoglobulin body and a prominent protrusion extending from it. Location and orientation of the side-chains of several amino acids in the protrusion are represented.

Figure 3



Supplemental Figure3. *In vitro* produced tagged-receptors were tested by WB techniques (left panel). Co-immunoprecipitation of *in vitro* translated receptors was assessed as described before (right panel).