

Product datasheet for **TP727703**

CD84 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human SLAM Family Member 5/SLAMF5/CD84(C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Lys22-Arg220
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human SLAM Family Member 5 is produced by our Mammalian expression system and the target gene encoding Lys22-Arg220 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	8832
UniProt ID:	Q9UIB8
Summary:	SLAM family member 5 (SLAMF5/CD84) is a type I transmembrane protein in the SLAM subgroup of the CD2 family. SLAM family proteins regulate multiple aspects of immune system function. Mature human CD84 consists of a 204 amino acid (aa) extracellular domain (ECD) with two Iglike domains, a 21 aa transmembrane segment, and a 99 aa cytoplasmic domain with two immunoreceptor tyrosinebased switch motifs (ITSMs). CD84 exhibits homophilic binding which is mediated by the N-terminal Ig-like domain. Ligation induces tyrosine phosphorylation in the cytoplasmic ITSMs which then recruit the signaling adaptor molecules SAP (SLAM-associated protein) and EAT-2(EWS/Fli1-activated transcript 2).CD84 signaling inhibits Fc epsilon RI-induced mast cell activation but enhances platelet activation. LPS-induced macrophage activation, T cell proliferation and IFN- γ production, and the interactions between T cells and B cells that are required for germinal center formation.



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