

For Research Use Only

CD300f Recombinant monoclonal antibody, PBS Only

Catalog Number: 87497-1-PBS



Basic Information

Catalog Number: 87497-1-PBS	GenBank Accession Number: GeneID (NCBI): 146722	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	UNIPROT ID: Q8TDQ1	CloneNo.: 252756G8
Source: Rabbit	Full Name: CD300 molecule-like family member	
Isotype: IgG	Observed MW: 40-60 kDa	
Immunogen Catalog Number: EG10440		

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human

Background Information

CD300f (also known as CLM-1 or IREM-1) is a type I transmembrane glycoprotein belonging to the CD300 family of immunoreceptors. Expressed predominantly on myeloid cells, including macrophages, dendritic cells, and mast cells, CD300f functions as an inhibitory receptor that regulates immune responses. Its extracellular domain contains a single IgV-like domain that recognizes phosphatidylserine and phosphatidylethanolamine, enabling recognition of apoptotic cells. The cytoplasmic tail harbors immunoreceptor tyrosine-based inhibitory motifs (ITIMs) that recruit phosphatases SHP-1 and SHP-2 upon phosphorylation, delivering negative signals. CD300f plays critical roles in dampening inflammation, promoting efferocytosis, and maintaining immune homeostasis (PMID: 28073916, PMID: 33548578, PMID: 37302321). The predicted molecular weight of CD300f is 32 kDa; however, due to different levels of N- and/or O-linked glycosylation modifications, its molecular weight may range from 40 to 60 kDa (PMID: 15549731, PMID: 31338922).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

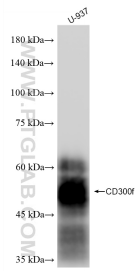
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

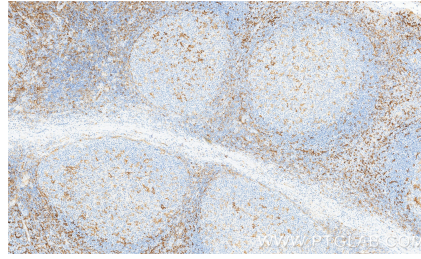
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



U-937 cells were subjected to SDS PAGE followed by western blot with 87497-1-RR (CD300f antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87497-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 87497-1-RR (CD300f antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 87497-1-PBS in a different storage buffer formulation.