

For Research Use Only

Siglec-7/CD328 Recombinant antibody

Catalog Number: 84253-4-RR



Basic Information

Catalog Number: 84253-4-RR	GenBank Accession Number: NM_014385.4	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 27036	CloneNo.: 241525G3
Source: Rabbit	UNIPROT ID: Q9Y286-1	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:500-1:2000
Isotype: IgG	Full Name: sialic acid binding Ig-like lectin 7	
	Calculated MW: 51 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : U-937 cells, IHC : human tonsillitis tissue,
Species Specificity: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Sialic acid binding Ig-like lectin 7 (Siglec-7), also known as CD328 or p75/AIRM-1, is a member of the Siglec family of glycan-recognition proteins. Siglec-7 is a type-I transmembrane protein consisting of three extracellular immunoglobulin-like domains that comprise an N-terminal V-set domain and two C2-set domains, a transmembrane region and a cytoplasmic tail containing two tyrosine residues embodied in immunoreceptor tyrosine-based inhibition motif-like motifs (PMID: 32322597; 10567377). It is mainly expressed on immune cells, with low levels on granulocytes, intermediate levels on monocytes, and relatively high levels on a major subset of natural killer cells and a minor subset of CD8+ T cells (PMID: 10567377). Siglec-7 is an inhibitory receptor that negatively regulates the function of NK cells and modulates the immune response through the interaction of sialic acid-containing ligands (PMID: 27312286).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

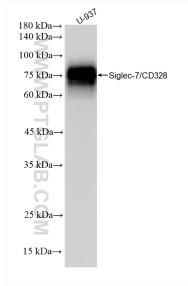
T: 4006900926

E: Proteintech-CN@ptglab.com

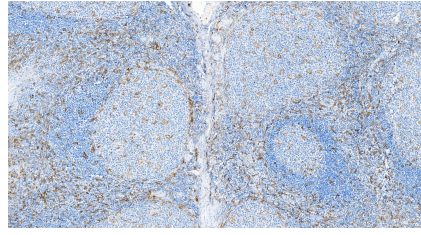
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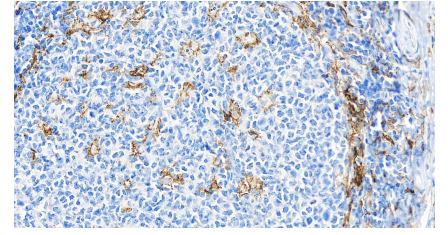
Selected Validation Data



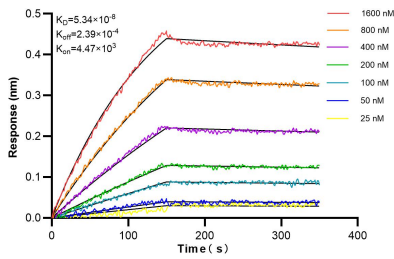
U-937 cells were subjected to SDS PAGE followed by western blot with 84253-4-RR (Siglec-7/CD328 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84253-4-RR (Siglec-7/CD328 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 84253-4-RR (Siglec-7/CD328 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 84253-4-RR against Human Siglec-7/CD328 were performed. The affinity constant is 53.4 nM.