

Siglec-7 Polyclonal antibody

 Catalog Number: 13939-1-AP 2 Publications

Basic Information

Catalog Number: 13939-1-AP	GenBank Accession Number: BC028150	Purification Method: Antigen affinity purification
Size: 450 µg/ml	GeneID (NCBI): 27036	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q9Y286	
Isotype: IgG	Full Name: sialic acid binding Ig-like lectin 7	
Immunogen Catalog Number: AG4220	Calculated MW: 467 aa, 51 kDa	
	Observed MW: 75 kDa	

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human

Cited Species:

human

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

Positive Controls:

WB: U-937 cells, A549 cells, human liver tissue, human placenta tissue, K-562 cells, L02 cells

IHC: human tonsillitis tissue, human liver tissue, human placenta tissue

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 75-kDa 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Kensuke Yamada	33240416	Oncol Lett	WB,IHC,IF
Rebecca Garnham	38448753	Commun Biol	WB,IF

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

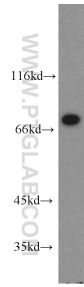
For technical support and original validation data for this product please contact:

T: 4006900926

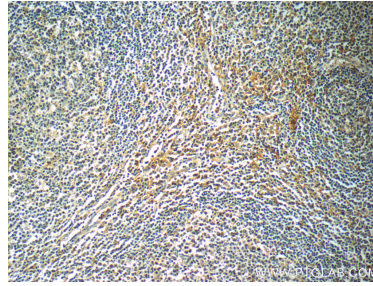
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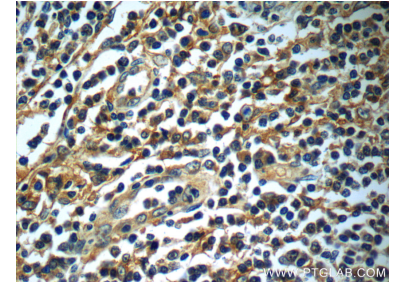
Selected Validation Data



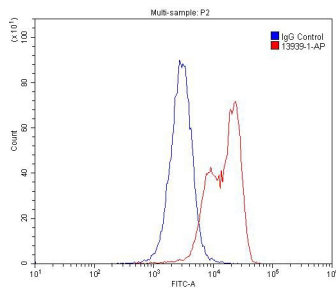
U-937 cells were subjected to SDS PAGE followed by western blot with 13939-1-AP (Siglec-7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis slide using 13939-1-AP (Siglec-7 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human tonsillitis slide using 13939-1-AP (Siglec-7 Antibody) at dilution of 1:50.



1×10^6 U-937 cells were stained with 0.2ug Siglec-7 antibody (13939-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.