

# Siglec-7 Polyclonal antibody

 Catalog Number: 13939-1-AP 2 Publications

## Basic Information

<b>Catalog Number:</b> 13939-1-AP  <b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop and 287 µg/ml by Bradford method using BSA as the standard;  <b>Source:</b> Rabbit  <b>Isotype:</b> IgG  <b>Immunogen Catalog Number:</b> AG4220	<b>GenBank Accession Number:</b> BC028150  <b>GeneID (NCBI):</b> 27036  <b>UNIPROT ID:</b> Q9Y286  <b>Full Name:</b> sialic acid binding Ig-like lectin 7  <b>Calculated MW:</b> 467 aa, 51 kDa  <b>Observed MW:</b> 75 kDa	<b>Purification Method:</b> Antigen affinity purification  <b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200
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## Applications

<b>Tested Applications:</b> WB, FC, IHC, ELISA  <b>Cited Applications:</b> WB, IF, IHC  <b>Species Specificity:</b> human  <b>Cited Species:</b> human  <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>Positive Controls:</b>  <b>WB :</b> U-937 cells, A549 cells, human liver tissue, human placenta tissue, K-562 cells, L02 cells  <b>IHC :</b> human tonsillitis tissue, human liver tissue, human placenta tissue
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## 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

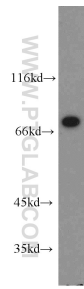
**Storage:**  
 Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
 PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

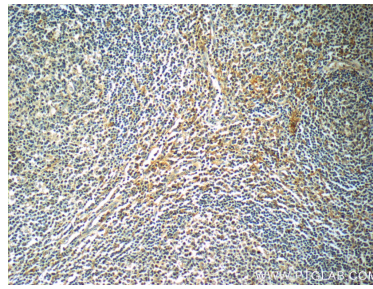
For technical support and original validation data for this product please contact:  
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

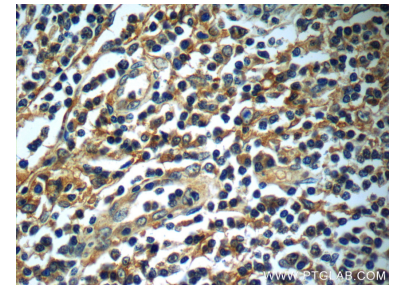
## Selected Validation Data



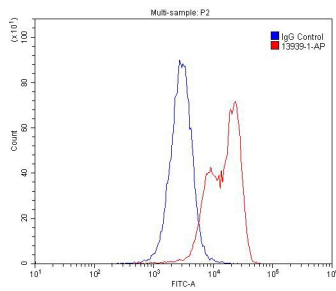
U-937 cells were subjected to SDS PAGE followed by western blot with 13939-1-AP (Siglec-7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.



$1 \times 10^6$  U-937 cells were stained with 0.2  $\mu$ g 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.