For Research Use Only

Siglec-7/CD328 Polyclonal antibody

Catalog Number:13939-1-AP 3 Publications

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Basic Information

Catalog Number:
13939-1-AP

Size:
150ul , Concentration: 450 ug/ml by Nanodrop and 287 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4220

GenBank Accession Number:
BC028150

GeneID (NCBI):
27036

UNIPROT ID:
Q9Y286

Full Name:
sialic acid binding Ig-like lectin 7

Calculated MW:
467 aa, 51 kDa

Observed MW:
65-70 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

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 : human placenta tissue, human liver tissue, U-937 cells, mouse placenta tissue

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 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
Jing Zhang	33470057	FEBS Open Bio	
Rebecca Garnham	38448753	Commun Biol	WB,IF

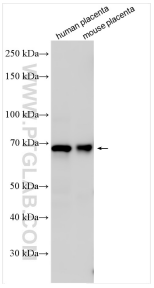
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

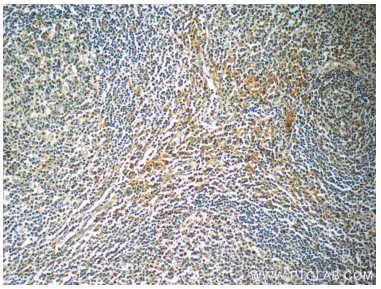
***** 20ul sizes contain 0.1% BSA**

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

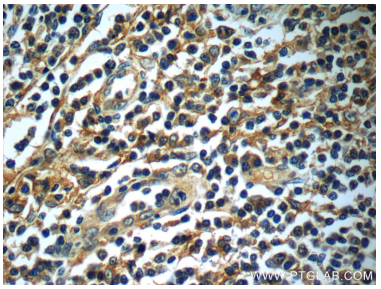
Selected Validation Data



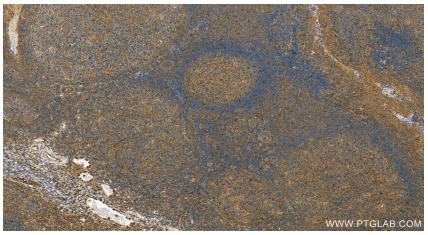
Various lysates were subjected to SDS PAGE followed by western blot with 13939-1-AP (Siglec-7 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



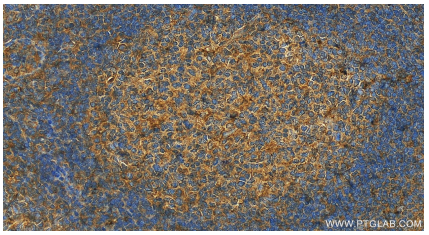
Immunohistochemical analysis of paraffin-embedded human tonsillitis slide using 13939-1-AP (Siglec-7 Antibody) at dilution of 1:50.



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



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13939-1-AP (Siglec-7/CD328 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13939-1-AP (Siglec-7/CD328 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).