

For Research Use Only

CD39/ENTPD1 Monoclonal antibody

Catalog Number:60323-1-Ig



Basic Information

Catalog Number: 60323-1-Ig	GenBank Accession Number: BC047664	Purification Method: Protein A purification
Size: 150ul , Concentration: 1300 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 953	CloneNo.: 2D2H6
Source: Mouse	UNIPROT ID: P49961	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:5000-1:20000 IF/ICC: 1:20-1:200
Isotype: IgG2a	Full Name: ectonucleoside triphosphate diphosphohydrolase 1	
Immunogen Catalog Number: AG6165	Calculated MW: 58 kDa	
	Observed MW: 54 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

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

Positive Controls:

WB : human placenta tissue,

IHC : human placenta tissue,

IF/ICC : HeLa cells,

Background Information

ENTPD1(Ectonucleoside triphosphate diphosphohydrolase 1) is also named CD39, NTPDase 1, and Ecto-ATPDase 1 and belongs to the GDA1/CD39 NTPase family. In the nervous system, it can hydrolyze ATP and other nucleotides to regulate purinergic neurotransmission. It is a noncovalent tetrameric protein and detergent inhibition of enzymatic activity is caused by dissociation of ectoapyrase tetramers into monomers(PMID: 9733785). And it is a 70- to 100-kDa protein that is heavily N-glycosylated(PMID:7930580). This protein has 6 glycosylation sites and 3 isoforms(58 kDa, 59 kDa, and 34 kDa) produced by alternative splicing. The soluble isoform of CD39(38-478 amino acid) is located in the extracellular part and 60323-1-Ig can recognize the soluble form of CD39 (38-478aa) molecule.

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

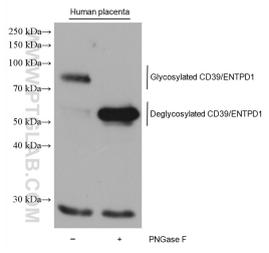
For technical support and original validation data for this product please contact:

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

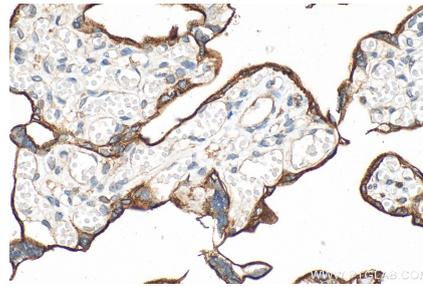
E: proteintech@ptglab.com
W: ptglab.com

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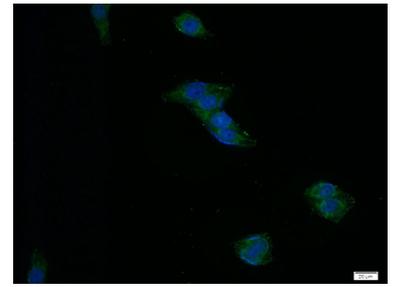
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 60323-1-Ig (CD39/ENTPD1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 60323-1-Ig (CD39/ENTPD1 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HeLa cells using 60323-1-Ig (ENTPD1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG (H+L).