For Research Use Only

CD39/ENTPD1 Polyclonal antibody

Catalog Number:19229-1-AP 9 Publications

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Basic Information

Catalog Number:
19229-1-AP

Size:
150ul , Concentration: 240 μg/ml by Nanodrop and 200 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6165

GenBank Accession Number:
BC047664

GeneID (NCBI):
953

UNIPROT ID:
P49961

Full Name:
ectonucleoside triphosphate diphosphohydrolase 1

Calculated MW:
58 kDa

Observed MW:
75-95 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
WB, IP, IF, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

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 : mouse liver tissue, HL-60 cells, mouse brain tissue, human liver tissue

IP : mouse liver tissue,

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

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). It has 3 isoforms produced by alternative splicing. CD39 preferentially occurred as a dimer that could be dissociated into monomeric forms. (PMID: 12694193). The soluble isoform of CD39(38-478 amino acid) is located in the extracellular part and 19229-1-AP recognizes both the 3 isoforms and the soluble form of CD39 (38-478aa) molecule.

Notable Publications

Author	Pubmed ID	Journal	Application
Wenjia Liu	30210899	Bone Res	WB
Yunshuo Zhao	34648290	J Chem Inf Model	FC
Hao Cui	36436019	Cancer Immunol Immunother	WB,IHC

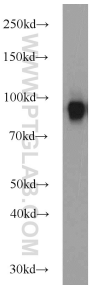
Storage

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

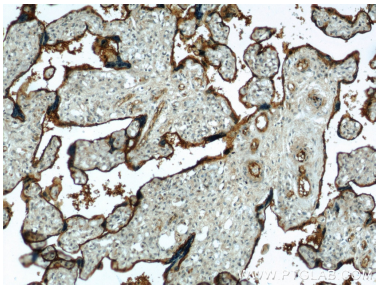
*** 20ul sizes contain 0.1% BSA

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

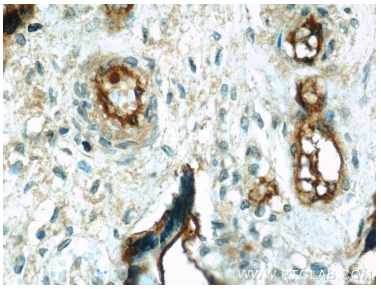
Selected Validation Data



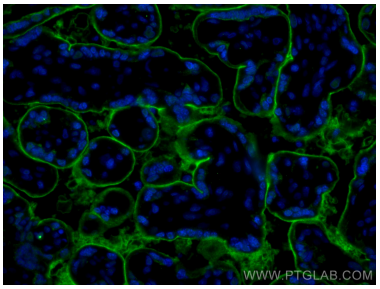
mouse liver tissue were subjected to SDS PAGE followed by western blot with 19229-1-AP (CD39 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



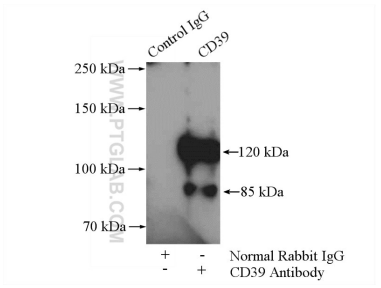
Immunohistochemical analysis of paraffin-embedded human placenta using 19229-1-AP (CD39 antibody) at dilution of 1:50 (under 10x lens).



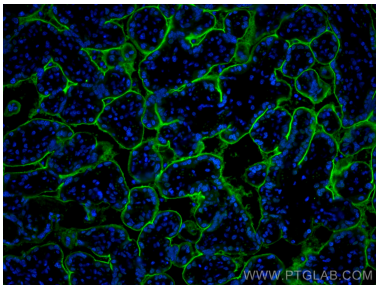
Immunohistochemical analysis of paraffin-embedded human placenta using 19229-1-AP (CD39 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed human placenta tissue using CD39/ENTPD1 antibody (19229-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-CD39/ENTPD1 (IP:19229-1-AP, 4ug; Detection:19229-1-AP 1:800) with mouse liver tissue lysate 4000ug.



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