

For Research Use Only

CD39/ENTPD1 Polyclonal antibody

Catalog Number: 14211-1-AP

8 Publications



Basic Information

| | | |
|--|--|--|
| Catalog Number: 14211-1-AP | GenBank Accession Number: BC047664 | Purification Method: Antigen affinity purification |
| Size: 350 ug/ml | GeneID (NCBI): 953 | Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500 IF-P 1:50-1:500 IF/ICC 1:20-1:200 |
| Source: Rabbit | UNIPROT ID: P49961 | |
| Isotype: IgG | Full Name: ectonucleoside triphosphate diphosphohydrolase 1 | |
| Immunogen Catalog Number: AG5429 | Calculated MW: 58 kDa | |
| | Observed MW: 50 kDa, 70-100 kDa | |

Applications

| | |
|---|---|
| Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA | Positive Controls: WB: mouse placenta tissue, human placenta tissue IHC: human placenta tissue, human tonsillitis tissue, human liver tissue IF-P: human placenta tissue, IF/ICC: HeLa cells, |
| 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

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.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|---|-------------|
| Moyuru Hayashi | 33146549 | Am J Physiol Gastrointest Liver Physiol | IHC |
| Federica Costa | 28915615 | Oncotarget | IHC |
| Xing-Cheng Zhao | 29996846 | BMC Med Genomics | WB |

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:

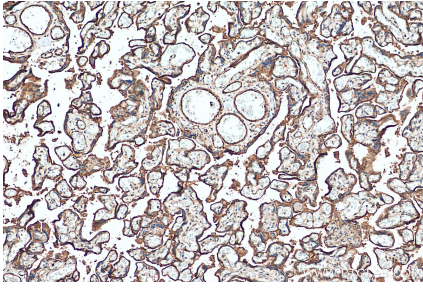
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

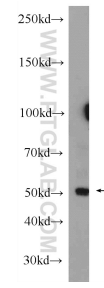
Selected Validation Data



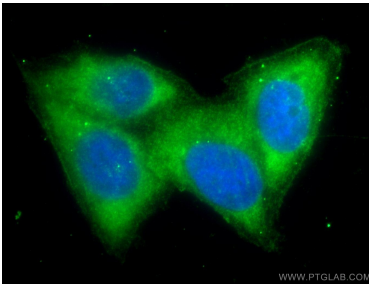
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 14211-1-AP (CD39/ENTPD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



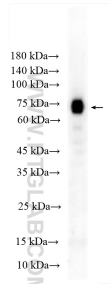
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 14211-1-AP (CD39/ENTPD1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



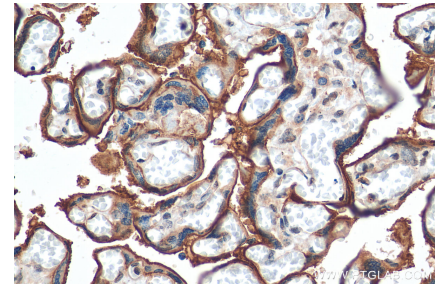
mouse placenta tissue were subjected to SDS PAGE followed by western blot with 14211-1-AP (ENTPD1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



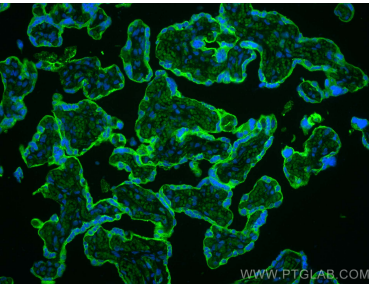
Immunofluorescent analysis of HeLa cells using 14211-1-AP (ENTPD1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



human placenta tissue were subjected to SDS PAGE followed by western blot with 14211-1-AP (CD39/ENTPD1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 14211-1-AP (CD39/ENTPD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human placenta tissue using CD39/ENTPD1 antibody (14211-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).