

For Research Use Only

CD73 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 86512-3-PBS



Basic Information

| | | | |
|---------------------------|-------------|---------------------------|------------------------------|
| Catalog Number: | 86512-3-PBS | GenBank Accession Number: | NM_002526.3 |
| Source: | Rabbit | GenID (NCBI): | 4907 |
| Isotype: | IgG | UNIPROT ID: | P21589-1 |
| Immunogen Catalog Number: | EG2974 | Full Name: | 5'-nucleotidase, ecto (CD73) |
| | | Calculated MW: | 63 kDa |
| | | Observed MW: | 63-70 kDa |

Applications

Tested Applications:
WB, IF/ICC, Sandwich ELISA, Indirect ELISA

Species Specificity:
human

Background Information

NT5E(5'-nucleotidase) is also named as NT5, NTE, CD73, ecto-5'-nucleotidase, and belongs to the 5'-nucleotidase family. It catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme occurs mainly as a dimer and the wide distribution of NT5E in the rat hippocampus, suggesting their involvement in the control of the purinergic signaling (PMID:17619139). This protein has two isoforms with the molecular weight of 63 kDa and 58 kDa and four glycosylation sites with a signal peptide. It can exist as a dimer (PMID:17619139). It can be detected by the band of 55 kDa, 64 kDa, 70 kDa, 110 kDa by western blot (PMID:17619139; 12370277; 21533188). Defects in NT5E are the cause of calcification of joints and arteries (CALJA).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

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

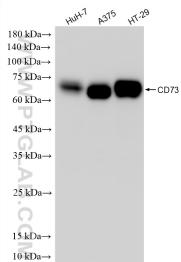
T: 4006900926

E: Proteintech-CN@ptglab.com

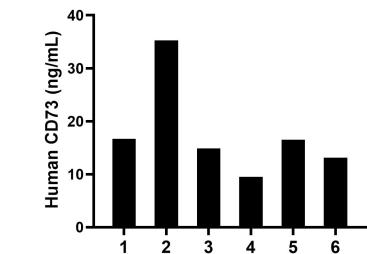
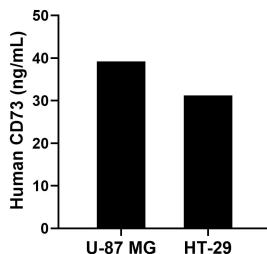
W: ptgcn.com

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

Selected Validation Data

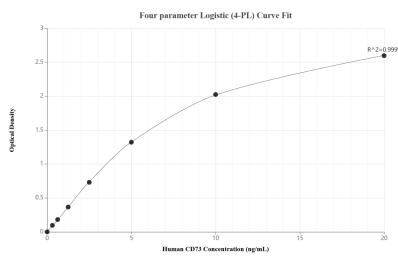


Various lysates were subjected to SDS PAGE followed by western blot with 86512-3-RR (CD73 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86512-3-PBS in a different storage buffer formulation.

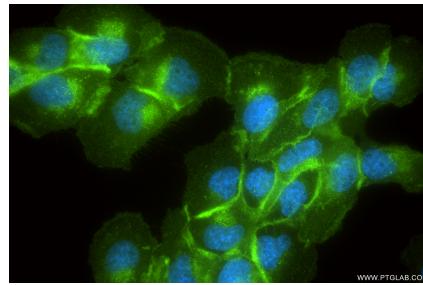


The mean CD73 concentration was determined to be 39.19 ng/mL in U-87 MG cell extract based on a 1.50 mg/mL extract load and 31.20 ng/mL in HT-29 cell extract based on a 1.10 mg/mL extract load.

Plasma of six individual healthy human donors was measured. The CD73 concentration of detected samples was determined to be 17.66 ng/mL with a range of 9.53-35.23 ng/mL.



Sandwich ELISA standard curve of MP02481-2, Human CD73 Recombinant Matched Antibody Pair - PBS only. 86512-5-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg2974. 86512-3-PBS was HRP conjugated as the detection antibody. Range: 0.313-20 ng/mL



Immunofluorescent analysis of (4% PFA) fixed U-251 cells using CD73 antibody (86512-3-RR, Clone: 251250H3) at dilution of 1:800 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 86512-3-PBS in a different storage buffer formulation.