

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                  | Purification Method: | Protein A purification |
| Source:                   | Rabbit      | GeneID (NCBI):            | 4907                         | CloneNo.:            | 251250H3               |
| 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 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:

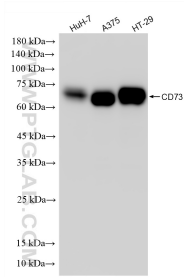
T: 4006900926

E: Proteintech-CN@ptglab.com

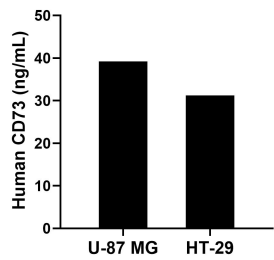
W: ptgcn.com

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

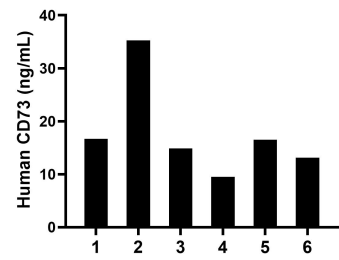
## Selected Validation Data



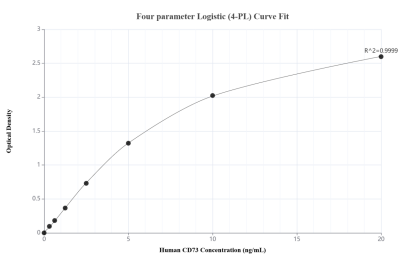
Various lysates were subjected to SDS PAGE followed by western blot with 86512-3-RR (CD73 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86512-3-PBS in a different storage buffer formulation.



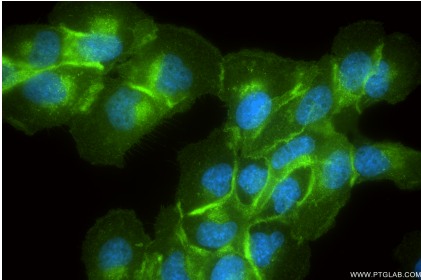
The mean CD73 concentration was determined to be 39.19 ng/mL in U-87 MG cell extract based on a 1.50 mg/mL extract load and 31.20 ng/mL in HT-29 cell extract based on a 1.10 mg/mL extract load.



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.