

Datasheet for ABIN388750
anti-CD73 antibody (C-Term)



[Go to Product page](#)

5 Images 10 Publications

Overview

Quantity:	400 µL
Target:	CD73 (NT5E)
Binding Specificity:	AA 520-550, C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD73 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This CD73 (NT5E) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 520-550 amino acids from the C-terminal region of human CD73 (NT5E).
Clone:	RB02846
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	CD73 (NT5E)
Alternative Name:	CD73 (NT5E) (NT5E Products)

Target Details

Background:	Ecto-5-prime-nucleotidase (5-prime-ribonucleotide phosphohydrolase) catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme consists of a dimer of 2 identical 70 kD subunits bound externally to the plasma membrane by a glycosyl phosphatidyl inositol linkage. The enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5E occurs in a variety of immunodeficiency diseases. Other forms of 5-prime nucleotidase exist in the cytoplasm and lysosomes and can be distinguished from ecto-NT5 by their substrate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorganic phosphate. It is not known whether the different enzymes are coded by different genes or result from different posttranslational modifications of a single coding sequence.
Molecular Weight:	63368
Gene ID:	4907
NCBI Accession:	NP_001191742 , NP_002517
UniProt:	P21589
Pathways:	Synaptic Membrane , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. WB: 1:500. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze-thaw cycles.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots.

Handling

Expiry Date: 6 months

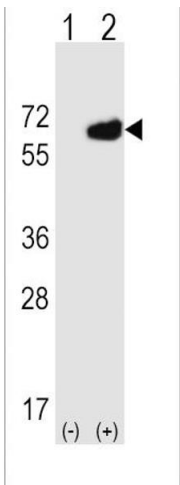
Publications

- Product cited in:
- Soleimanifar, Mortazavi, Nadri, Soleimani: "Conjunctiva derived mesenchymal stem cell (CJMSCs) as a potential platform for differentiation into corneal epithelial cells on bioengineered electrospun scaffolds." in: **Journal of biomedical materials research. Part A**, Vol. 105, Issue 10, pp. 2703-2711, (2018) ([PubMed](#)).
- Yu, Wang, Lu, Wang, Li, Liao, Zhu, Lv, Zhi, Yu, Jin, Zou, Ou, Liu, Zhou: "Extracellular 5'-nucleotidase (CD73) promotes human breast cancer cells growth through AKT/GSK-3 β / β -catenin/cyclinD1 signaling pathway." in: **International journal of cancer**, Vol. 142, Issue 5, pp. 959-967, (2018) ([PubMed](#)).
- Tak, Jung, Kim, Park, Jun, Lee, Jung, Kirchner, Hwang, Song, Lee: "Protective role of hypoxia-inducible factor-1 α -dependent CD39 and CD73 in fulminant acute liver failure." in: **Toxicology and applied pharmacology**, Vol. 314, pp. 72-81, (2017) ([PubMed](#)).
- Cartón-García, Overeem, Nieto, Bazzocco, Dopeso, Macaya, Bilic, Landolfi, Hernandez-Losa, Schwartz, Ramon Y Cajal, van Ijzendoorn, Arango: "Myo5b knockout mice as a model of microvillus inclusion disease." in: **Scientific reports**, Vol. 5, pp. 12312, (2015) ([PubMed](#)).
- Zhi, Wang, Yu, Yu, Zhang, Yin, Zhou: "Potential prognostic biomarker CD73 regulates epidermal growth factor receptor expression in human breast cancer." in: **IUBMB life**, Vol. 64, Issue 11, pp. 911-20, (2012) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



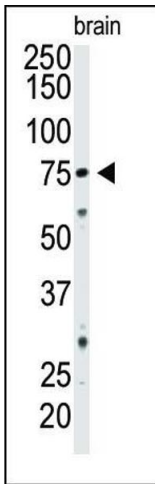
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human Placenta tissue reacted with CD73 (NT5E) Antibody (C-term) (ABIN388750 and ABIN2839011) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of NT5E (arrow) using rabbit polyclonal NT5E Antibody (ABIN388750 and ABIN2839011). 293 cell lysates (2 µg/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the NT5E gene.



Western Blotting

Image 3. Western blot analysis of CD73 Pab (ABIN388750 and ABIN2839011) in mouse brain tissue lysate. CD73 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN388750.