

CD73 (NT5E) Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2014b

Specification

CD73 (NT5E) Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	P21589
Other Accession	NP_002517
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	520-550

CD73 (NT5E) Antibody (C-term) - Additional Information

Gene ID 4907

Other Names

5'-nucleotidase, 5'-NT, Ecto-5'-nucleotidase, CD73, NT5E, NT5, NTE

Target/Specificity

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).

Dilution

WB~~1:1000
IHC-P~~1:10~50

Format

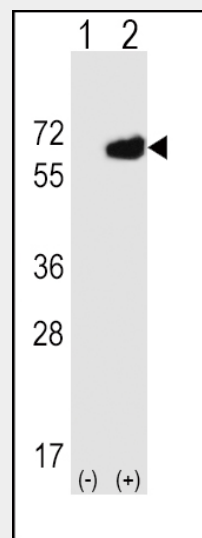
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

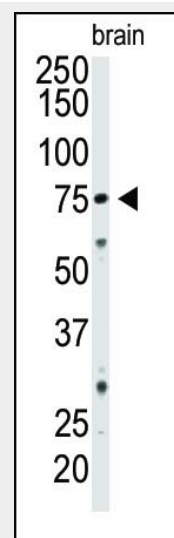
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CD73 (NT5E) Antibody (C-term) is for



Western blot analysis of NT5E (arrow) using rabbit polyclonal NT5E Antibody (M535) (Cat. #AP2014b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the NT5E gene.



Western blot analysis of CD73 Pab (Cat. #AP2014b) in mouse brain tissue lysate. CD73 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.

research use only and not for use in diagnostic or therapeutic procedures.

CD73 (NT5E) Antibody (C-term) - Protein Information

Name NT5E

Synonyms NT5, NTE

Function

Hydrolyzes extracellular nucleotides into membrane permeable nucleosides. Exhibits AMP-, NAD-, and NMN-nucleosidase activities.

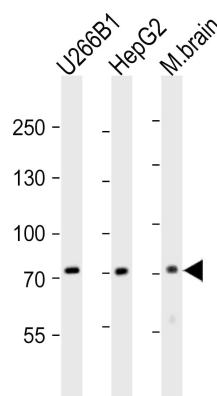
Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor.

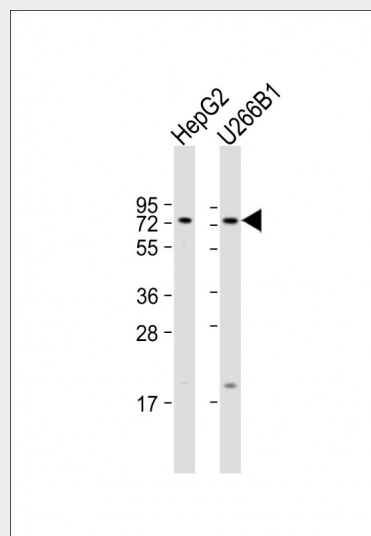
CD73 (NT5E) Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)



Western blot analysis of lysates from U266B1, HepG2 cell line, mouse brain tissue lysate (from left to right), using NT5E-M535 Antibody (Cat. #AP2014b). AP2014b was diluted at 1:2000 at each lane. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.



All lanes : Anti-NT5E Antibody (M535) at 1:1000 dilution
Lane 1: HepG2 whole cell lysate
Lane 2: U266B1 whole cell lysate
Lysates/proteins at 20 µg per lane.
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution.
Predicted band size : 63 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human Placenta tissue reacted with CD73 (NT5E) Antibody (C-term)(Cat.#AP2014b), 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.

CD73 (NT5E) Antibody (C-term) - 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.

CD73 (NT5E) Antibody (C-term) - References

Hashikawa, T., et al., J. Dent. Res. 82(11):888-892 (2003). Rosi, F., et al., Biomed. Pharmacother. 56(2):100-104 (2002). Misumi, Y., et al., Eur. J. Biochem. 191(3):563-569 (1990). Boyle, J.M., et al., Hum. Genet. 81(1):88-92 (1988). Kalsi, K., et al., Mol. Cell. Biochem. 232 (1-2), 113-119 (2002).

CD73 (NT5E) Antibody (C-term) - Citations

- [Extracellular 5'-nucleotidase \(CD73\) promotes human breast cancer cells growth through AKT/GSK-3 \$\beta\$ / \$\beta\$ -catenin/cyclinD1 signaling pathway.](#)
- [Conjunctiva derived mesenchymal stem cell \(CJMSCs\) as a potential platform for differentiation into corneal epithelial cells on bioengineered electrospun scaffolds.](#)
- [Protective role of hypoxia-inducible factor-1 \$\alpha\$ -dependent CD39 and CD73 in fulminant acute liver failure.](#)
- [Myo5b knockout mice as a model of microvillus inclusion disease.](#)
- [Potential prognostic biomarker CD73 regulates epidermal growth factor receptor expression in human breast cancer.](#)
- [Hypoxia-inducible factor-1 \$\alpha\$ -dependent protection from intestinal ischemia/reperfusion injury involves ecto-5'-nucleotidase \(CD73\) and the A2B adenosine receptor.](#)
- [RNAi-mediated CD73 suppression induces apoptosis and cell-cycle arrest in human breast cancer cells.](#)
- [Metastasis-related plasma membrane proteins of human breast cancer cells identified by comparative quantitative mass spectrometry.](#)
- [Role of extracellular nucleotide phosphohydrolysis in intestinal ischemia-reperfusion injury.](#)
- [A simplified method for the preparation of detergent-free lipid rafts.](#)