

CD73 (NT5E) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP2014b**Specification**

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

Primary Accession [P21589](#)
Other Accession [NP_002517](#)

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

Gene ID 4907

Other Names

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

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2014b](/product/products/AP2014b) was selected from the C-term region of human NT5E. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

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

Name NT5E

Synonyms NT5, NTE

Function

Catalyzes the hydrolysis of nucleotide monophosphates, releasing inorganic phosphate and the corresponding nucleoside, with AMP being the preferred substrate (PubMed: [21933152](http://www.uniprot.org/citations/21933152), PubMed: [34403084](http://www.uniprot.org/citations/34403084), PubMed: [24887587](http://www.uniprot.org/citations/24887587), PubMed: [22997138](http://www.uniprot.org/citations/22997138), PubMed: [23142347](http://www.uniprot.org/citations/23142347)). Shows a preference for ribonucleotide monophosphates over their equivalent deoxyribose forms (PubMed: [34403084](http://www.uniprot.org/citations/34403084)).

Other substrates include IMP, UMP, GMP, CMP, dAMP, dCMP, dTMP, NAD and NMN (PubMed:21933152, PubMed:34403084, PubMed:24887587, PubMed:22997138, PubMed:23142347).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

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

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

- [Blocking Peptides](#)

CD73 (NT5E) Antibody (C-term) Blocking peptide - Images

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