

CD73 (NT5E) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP2014a**Specification**

CD73 (NT5E) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [P21589](#)**CD73 (NT5E) Antibody (N-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 [AP2014a](/product/products/AP2014a) was selected from the N-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 (N-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: [34403084](#)).

href="http://www.uniprot.org/citations/21933152" target="_blank">21933152, PubMed:34403084, PubMed:24887587, PubMed:22997138, PubMed:23142347).

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

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

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

- [Blocking Peptides](#)

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

CD73 (NT5E) Antibody (N-term) Blocking peptide - Background

Ecto-5-prime-nucleotidase catalyzes conversion at neutral pH of purine 5-prime mononucleotides to nucleosides. The enzyme consists of a dimer of 2 identical 70 kD subunits tethered by a glycosyl phosphatidyl inositol moiety to the exterior plasma membrane surface. The enzyme, a marker of lymphocyte differentiation is associated in deficiency with a variety of immunodeficiency diseases. The preferred substrate is AMP. The NT5 gene has been localized to 6q14-q21 by immunofluorescence and a study of a panel of human x mouse hybrids that contained fragments of chromosome 6 as translocations.

CD73 (NT5E) Antibody (N-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).