

# CD73 (NT5E) Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2014A

## Product Information

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<b>Application</b>	IHC-P, E
<b>Primary Accession</b>	<a href="#">P21589</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Calculated MW</b>	63368
<b>Antigen Region</b>	1-30

## Additional Information

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<b>Gene ID</b>	4907
<b>Other Names</b>	5'-nucleotidase, 5'-NT, Ecto-5'-nucleotidase, CD73, NT5E, NT5, NTE
<b>Target/Specificity</b>	This CD73 (NT5E) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human CD73 (NT5E).
<b>Dilution</b>	IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	CD73 (NT5E) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	NT5E
<b>Synonyms</b>	NT5, NTE
<b>Function</b>	Catalyzes the hydrolysis of nucleotide monophosphates, releasing inorganic phosphate and the corresponding nucleoside, with AMP being the preferred substrate (PubMed: <a href="#">21933152</a> , PubMed: <a href="#">22997138</a> , PubMed: <a href="#">23142347</a> , PubMed: <a href="#">24887587</a> , PubMed: <a href="#">34403084</a> ). Shows a preference for

ribonucleotide monophosphates over their equivalent deoxyribose forms (PubMed:[34403084](#)). Other substrates include IMP, UMP, GMP, CMP, dAMP, dCMP, dTMP, NAD and NMN (PubMed:[21933152](#), PubMed:[22997138](#), PubMed:[23142347](#), PubMed:[24887587](#), PubMed:[34403084](#)).

## Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor

## Background

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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.

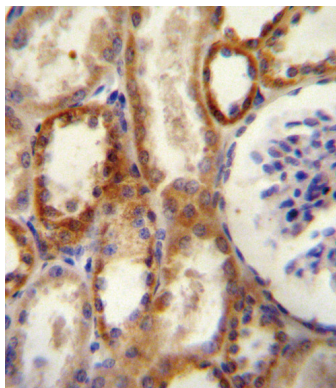
## References

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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).

## Images

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CD73 (NT5E) Antibody (N-term) (Cat. #AP2014a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of CD73 (NT5E) Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

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- [Umbilical cord mesenchymal stromal cells affected by gestational diabetes mellitus display premature aging and mitochondrial dysfunction.](#)
- [CD73 is a phenotypic marker of effector memory Th17 cells in inflammatory bowel disease.](#)
- [Ecto-5'-nucleotidase/CD73 knockdown increases cell migration and mRNA level of collagen I in a hepatic stellate cell line.](#)
- [Expression of dopamine-associated genes on conjunctiva stromal-derived human mesenchymal stem cells.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.