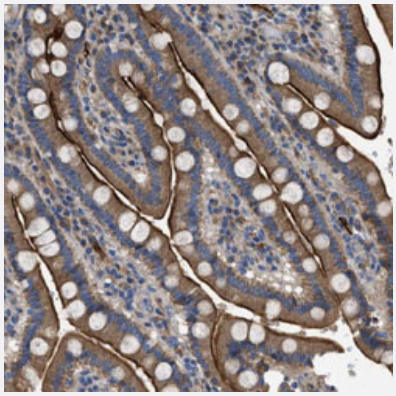
NT5E polyclonal antibody

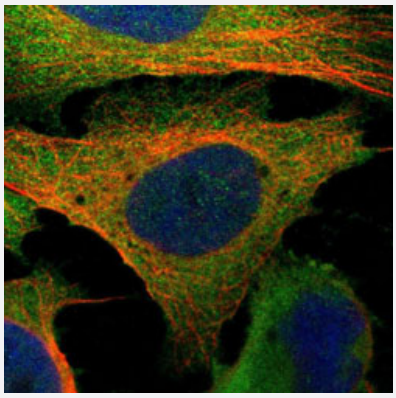
Catalog # PAB29314 Size 100 uL

Applications



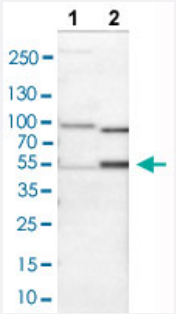
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human duodenum tissue with NT5E polyclonal antibody (Cat# PAB29314) at 1:1000 - 1:2500 dilution.



Immunofluorescence

Immunofluorescence staining of U-2 OS cells with NT5E polyclonal antibody (Cat# PAB29314) under 1-4 ug/mL working concentration.



Western Blot (Cell lysate)

Western blot analysis of Lane 1: NIH-3T3 cell lysate, Lane 2: NBT-II cell lysate with NT5E polyclonal antibody (Cat# PAB29314) at 1:100 - 1:250 dilution.

Specification

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Product Description	Rabbit polyclonal antibody raised against recombinant human NT5E.
Immunogen	Recombinant protein corresponding to amino acids 118-232 of human NT5E.
Sequence	EFDNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYLPYKVLPVGDEVVGIVGYTSKETPFLSN PGTNLVFEDEITALQPEVDKLKTLNVNKIIALGHSGFEMDKLIAQK
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1-4 ug/mL) Immunohistochemistry (1:1000-1:2500) Western Blot (1:100-1:250) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human duodenum tissue with NT5E polyclonal antibody (Cat# PAB29314) at 1:1000 - 1:2500 dilution.

- Immunofluorescence

  Immunofluorescence staining of U-2 OS cells with NT5E polyclonal antibody (Cat# PAB29314) under 1-4 ug/mL working concentration.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: NIH-3T3 cell lysate, Lane 2: NBT-II cell lysate with NT5E polyclonal antibody (Cat# PAB29314) at 1:100 - 1:250 dilution.

Gene Info — NT5E

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Entrez GeneID	4907
Protein Accession#	P21589
Gene Name	NT5E
Gene Alias	CD73, E5NT, NT, NT5, NTE, eN, eNT
Gene Description	5'-nucleotidase, ecto (CD73)
Omim ID	129190
Gene Ontology	Hyperlink
Gene Summary	Ecto-5-prime-nucleotidase (5-prime-ribonucleotide phosphohydrolase; EC 3.1.3.5) 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 by a glycosyl phosphatidyl inositol linkage to the external face of the plasma membrane. The enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5 occurs in a variety of immunodeficiency diseases (e.g., see MIM 102700, MIM 300300). 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.[supplied by OMIM
Other Designations	5' nucleotidase (CD73)|5' nucleotidase, ecto|OTTHUMP00000016808|OTTHUMP00000040565|Purine 5-Prime-Nucleotidase|ecto-5'-nucleotidase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Metabolic pathways
- Nicotinate and nicotinamide metabolism
- Purine metabolism
- Pyrimidine metabolism

Disease

- Ataxia telangiectasia
- Colorectal Neoplasms
- Depressive Disorder

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- Fatigue
- Genetic Predisposition to Disease
- Ovarian Neoplasms
- Sleep Disorders
- Sleep Initiation and Maintenance Disorders

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