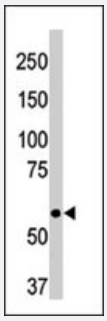
NT5E polyclonal antibody

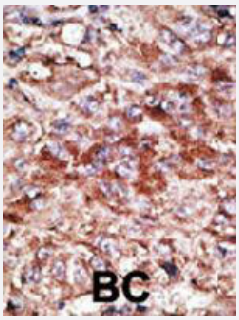
Catalog # PAB3845 Size 400 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of NT5E polyclonal antibody (Cat # PAB3845) in Y-79 cell line lysate (35 ug/lane). NT5E (arrow) was detected using the purified polyclonal antibody.



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

Formalin-fixed and paraffin-embedded human cancer tissue reacted with NT5E polyclonal antibody (Cat # PAB3845) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of NT5E.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human NT5E.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% 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

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Gene Info — NT5E

Entrez GeneID	4907
Protein Accession#	NP_002517;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

Publication Reference

- Involvement of CD73 (ecto-5'-nucleotidase) in adenosine generation by human gingival fibroblasts.

  Hashikawa T, Takedachi M, Terakura M, Saho T, Yamada S, Thompson LF, Shimabukuro Y, Murakami S.

  Journal of Dental Research 2003 Nov; 82(11):888.

  Application: Flow Cyt, IF, Human, Human gingival fibroblasts

- Ecto-5'-nucleotidase in B-cell chronic lymphocytic leukemia.

  Rosi F, Carlucci F, Marinello E, Tabucchi A.

  Biomedicine & Pharmacotherapy 2002 Mar; 56(2):100.

  Application: IHC, WB, Human, Human B-cell chronic lymphocytic leukemia

- Primary structure of human placental 5'-nucleotidase and identification of the glycolipid anchor in the mature form.

  Misumi Y, Ogata S, Ohkubo K, Hirose S, Ikehara Y.

  European Journal of Biochemistry 1990 Aug; 191(3):563.

  Application: AFC, Human, Purified proteins

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