

RecomAb™

NT5E recombinant monoclonal antibody, clone R07-2A2

Catalog # RAB06516 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human NT5E.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human NT5E.
Theoretical MW (kDa)	Calculated MW: 63 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end use.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol and 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 should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry

Gene Info — NT5E

Entrez GeneID [4907](#)

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](#)

- [Fatigue](#)
- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)
- [Sleep Disorders](#)
- [Sleep Initiation and Maintenance Disorders](#)