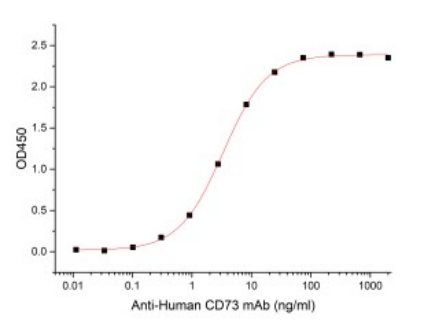
RecomAb™

NT5E recombinant monoclonal antibody (Oleclumab)

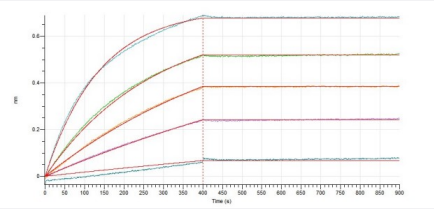
Catalog # RAB09699 Size 50 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD73-His at 2 ug/mL (100 uL/well) can bind NT5E recombinant monoclonal antibody (Cat# RAB09699).The ED_{50} of NT5E recombinant monoclonal antibody (Cat# RAB09699) is 3.33 ng/mL .



Bio-layer interferometry

Loaded NT5E recombinant monoclonal antibody (Cat# RAB09699) on Protein A Biosensor, can bind Human CD73-Hiswith an affinity constant of < 10-3 nM as determined in BLI assay.

Greater than 95% as determined by reducing SDS-PAGE.

Specification

Product Description	Recombinant human monoclonal antibody raised against human NT5E.

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Host	Human
Theoretical MW (kDa)	49.8, 23.7
Form	Liquid
Preparation Method	Mammalian expression system
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin Level	< 1 EU/ug as determined by LAL test.
Isotype	Human IgG1
Regulatory Status	For research use only (RUO)
Recommend Usage	ELISA BLI assay The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (0.2 um filtered solution).
Storage Instruction	Store at -20°C. Avoid multiple freeze-thaw cycles.

Applications

- Enzyme-linked Immunoabsorbent Assay

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Gene Info — NT5E

Entrez GeneID	4907
Protein Accession#	P21589
Gene Name	NT5E
Gene Alias	CD73, E5NT, NT, NT5, NTE, eN, eNT
Gene Description	5'-nucleotidase, ecto (CD73)

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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 substrat e being AMP. The enzyme consists of a dimer of 2 identical 70-kD subunits bound by a glycosyl p hosphatidyl 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 im munodeficiency diseases (e.g., see MIM 102700, MIM 300300). Other forms of 5-prime nucleotid ase exist in the cytoplasm and lysosomes and can be distinguished from ecto-NT5 by their substr ate affinities, requirement for divalent magnesium ion, activation by ATP, and inhibition by inorgan ic 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

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