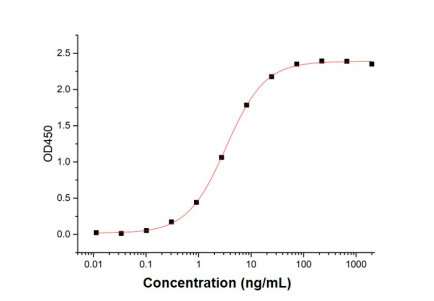
RecomAb™ | *In Vivo* Functional Grade Antibodies | Sm Size

NT5E recombinant monoclonal antibody

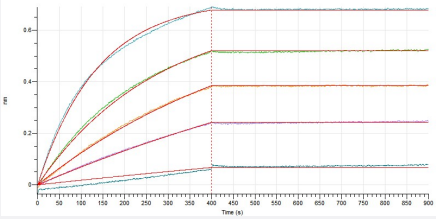
Catalog # RAB09515 Size 50 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human NT5E-His at 2 ug/mL (100 uL/well) can bind Human NT5E Antibody (Cat # RAB09515).The ED_{50} of Human NT5E Antibody (Cat # RAB09515) is 3.33 ng/mL.



Bio-layer interferometry

Loaded Human NT5E Antibody (Cat # RAB09515) on Protein A Biosensor, can bind Human NT5E-His with an affinity constant of < 10-3 nM as determined in BLI assay.

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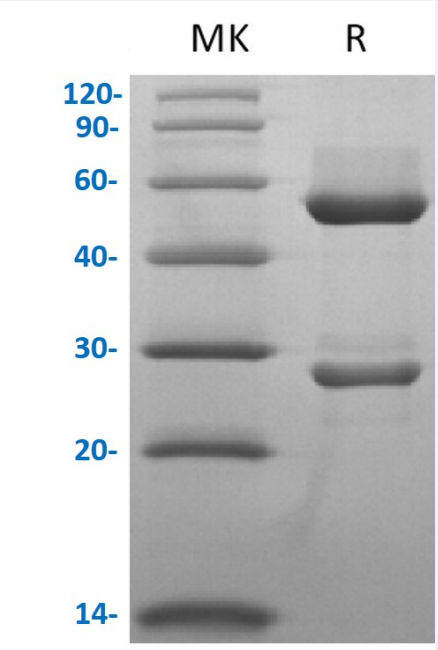

SDS-PAGE

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

Specification

Product Description	NT5E recombinant monoclonal antibody, IgG1 targeting Human NT5E recombinant protein.
Antibody Species	Human
Theoretical MW (kDa)	49.8, 23.7
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell expression system
Isotype	Human IgG1
Purity	≥ 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of the protein by the LAL method.
Form	Liquid
Isotype	IgG1
Storage Buffer	In PBS, pH 7.4
Sterility	0.2 um filtration
Storage Instruction	Store at -20°C, stable for 12 months after receipt. Aliquot to avoid repeated freezing and thawing.

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Applications

- Enzyme-linked Immunoabsorbent Assay

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- Bio-layer interferometry

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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)
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

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- 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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