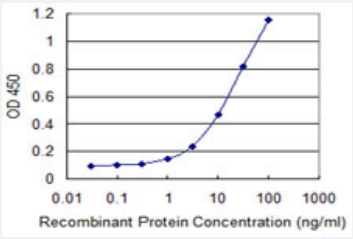
# NT5E monoclonal antibody (M02), clone 4D3-2C10

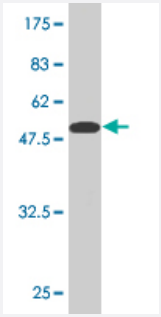
Catalog # H00004907-M02 Size 100 ug

## Applications




### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged NT5E is 0.3 ng/ml as a capture antibody.




Western Blot detection against Immunogen (51.81 KDa) .

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against a full-length recombinant NT5E. |
| **Immunogen** | NT5E (AAH15940.1, 28 a.a. ~ 264 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Sequence** | ELTILHTNDVHSRLEQTSEDSSKCVNASRCMGGVARLFTKVQQIRRAEPNVLLLDAGDQYQGTIW FTVYKGAEVAHFMNALRYDAMALGNHEFDNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYL PYKVLPVGDEVVGIVGYTSKETPFLSNPGTNLVFEDEITALQPEVDKLKTLNVNKIIALGHSGSEMD KLIAQKVRGVDVVVGGHSNTFLYTGNCFKRIAWARMSR |
| **Host** | Mouse |
| **Reactivity** | Human |

| | |
|---|---|
| **Interspecies Antigen Sequence** | Mouse (89); Rat (91) |
| **Isotype** | IgG1 Kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (51.81 KDa) . |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged NT5E is 0.3 ng/ml as a capture antibody.

  Protocol Download

- ELISA

## Gene Info — NT5E

| | |
|---|---|
| **Entrez GeneID** | 4907 |
| **GeneBank Accession#** | BC015940 |
| **Protein Accession#** | AAH15940.1 |
| **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