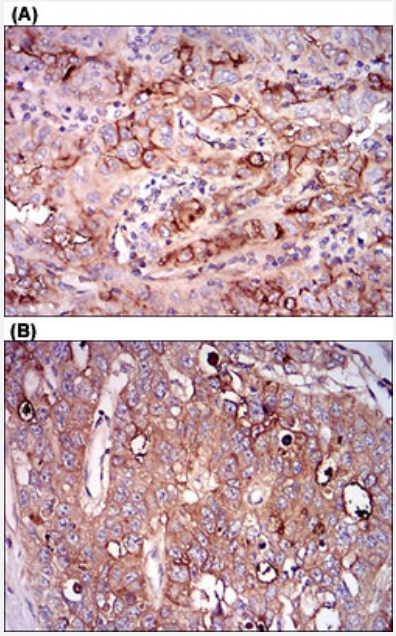
NT5E monoclonal antibody, clone 4G6E3

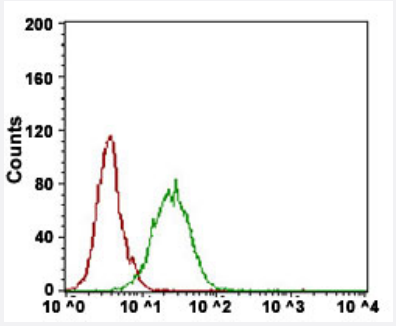
Catalog # MAB12266 Size 100 ug

Applications



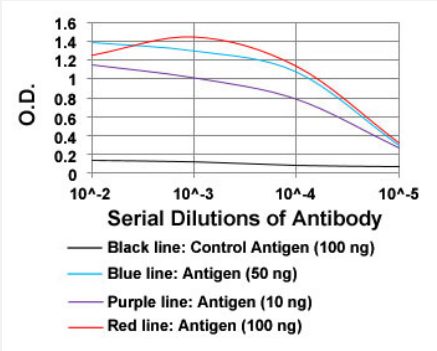
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human endometrial cancer tissues (A) and esophageal cencer tissues (B) with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:200-1:1000 dilution.



Flow Cytometry

Flow cytometric analysis of A431 cells with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:200-1:400 dilution (Green) and negative control (Red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:10000 dilution.

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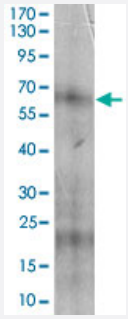
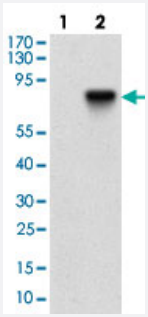


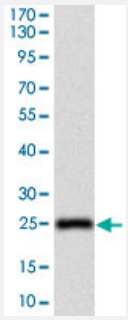
Western Blot (Cell lysate)

Western blot analysis of A431 cell lysate with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.



Western Blot (Transfected lysate)

Western blot analysis of Lane 1: Negative control [HEK293 cell lysate]; Lane 2: Over-expression lysate [NT5E (AA: 30-250)-hIgGFc transfected HEK293 cells] with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.



Western Blot (Recombinant protein)

Western blot analysis of human NT5E (AA: 30-250) recombinant protein (Expected MW is 26.6 kDa) with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human NT5E.
Immunogen	Recombinant protein corresponding to amino acids 30-250 of human TIE1.
Host	Mouse
Theoretical MW (kDa)	63.4
Reactivity	Human
Form	Liquid
Isotype	IgG1

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Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunohistochemistry (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% 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

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

  Immunohistochemical staining of human endometrial cancer tissues (A) and esophageal cencer tissues (B) with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:200-1:1000 dilution.

- ### Flow Cytometry

  Flow cytometric analysis of A431 cells with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:200-1:400 dilution (Green) and negative control (Red).

- ### Enzyme-linked Immunoabsorbent Assay

  ELISA analysis of NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:10000 dilution.

- ### Western Blot (Cell lysate)

  Western blot analysis of A431 cell lysate with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.

- ### Western Blot (Transfected lysate)

  Western blot analysis of Lane 1: Negative control [HEK293 cell lysate]; Lane 2: Over-expression lysate [NT5E (AA: 30-250)-hIgGFc transfected HEK293 cells] with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.

- ### Western Blot (Recombinant protein)

  Western blot analysis of human NT5E (AA: 30-250) recombinant protein (Expected MW is 26.6 kDa) with NT5E monoclonal antibody, clone 4G6E3 (Cat# MAB12266) at 1:500-1:2000 dilution.

Gene Info — NT5E

Entrez GeneID	4907

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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
- Nicotinate and nicotinamide metabolism
- Purine metabolism
- Pyrimidine metabolism

Disease

- Ataxia telangiectasia
- Colorectal Neoplasms
- Depressive Disorder
- Fatigue
- Genetic Predisposition to Disease

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- Ovarian Neoplasms
- Sleep Disorders
- Sleep Initiation and Maintenance Disorders

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