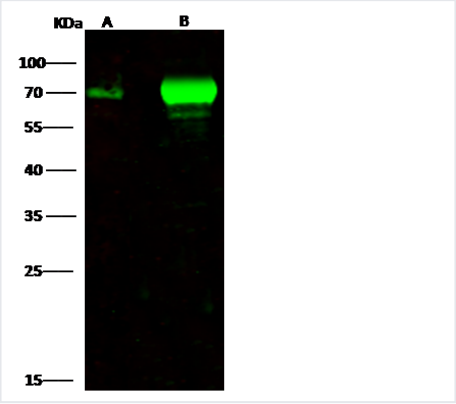
NT5E Antibody – Rabbit Polyclonal

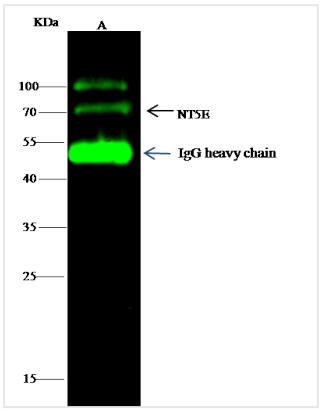
PRODUCT OVERVIEW

Product Name	CD73 (NT5E), Polyclonal Antibody
Full Product Name	Anti-CD73 Antibody, Rabbit Polyclonal
Product Gene Name	anti-NT5E antibody
Product Synonym Names	CD73/NT5E Antibody, Rabbit PAb, Antigen Affinity Purified; 5'-nucleotidase, ecto (CD73); Anti-CALJA Antibody; Anti-CD73 Antibody; Anti-E5NT Antibody; Anti-eN Antibody; Anti-eNT Antibody; Anti-NT Antibody; Anti-NT5 Antibody; Anti-NTE Antibody
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.2um filtered solution in PBS
Purity/Purification	Protein A & Antigen Affinity
Specificity	Human CD73/NT5E
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Molecular Weight	57,949 Da
OMIM	gene 211800
3D Structure	ModBase 3D Structure for P21589
Immunogen	Recombinant Human CD73/NT5E protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CD73/NT5E (rh CD73/NT5E). CD73/NT5E specific IgG was purified by Human CD73/NT5E affinity chromatography.
Product Categories/Family for anti-NT5E antibody	Phosphatases and Regulators
Applications Tested/Suitable for anti-NT5E antibody	Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Application Notes for anti-NT5E antibody	WB: 1:500-1:2000 ELISA: 1:5000-1:10,000 IP: 1-4uL/mg of lysate

Related Product Information for anti-NT5E antibody	5'-nucleotidase, also known as NT5E, NTE, and CD73, is a cell membrane protein that belongs to the 5'-nucleotidase family. CD73 is a glycosylphosphatidylinositol (GPI) anchored purine salvage enzyme expressed on the surface of human T and B lymphocytes. CD73 catalyzes the conversion of purine and pyrimidine ribo-and deoxyribonucleoside monophosphates to the corresponding nucleosides. CD73 serves as a costimulatory molecule in activating T cells. CD73 generated adenosine functions in cell signaling in many physiologic systems, including intestinal epithelium, ischemic myocardium, and cholinergic synapses. CD73 might mediate lymphocyte-stromal cell interactions or condition the local microenvironment to facilitate lymphocyte development and/or function. In CD73-depleted cells, surface levels of the leukocyte adhesion molecules ICAM-1, VCAM-1, and E-selectin increase. CD73 produces extracellular adenosine, which then acts on G protein-coupled purinergic receptors to induce cellular responses. CD73 has also been reported to regulate the expression of pro-inflammatory molecules in mouse endothelium.
Product References and Citations for anti-NT5E antibody	Resta R. et al., 1997, Cell Signal. 9 (2): 131-9. Yamashita Y. et al., 1998, Eur J Immunol. 28 (10): 2981-90. Louis NA. et al., 2008, J Immunol. 180 (6): 4246-55. Grunewald JK. et al., 2010, J Inflamm. 7 (1): 10.
Other Notes	Small volumes of anti-NT5E antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NT5E purchase	MBS8104318 is an antibody targeting NT5E. Also known as Anti-CD73 Antibody, Rabbit Polyclonal. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-NT5E antibody
Anti-NT5E rabbit polyclonal antibody at 1:500 dilutionLane A: HepG2 Whole Cell LysateLane B: NCI-H1299 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique. Performed under reducing conditions.Predicted band size:63 kDaObserved band size:70 kDa(We are unsure as to the identity of these extra bands.)



Immunoprecipitation (IP) of anti-NT5E antibody
NT5E was immunoprecipitated using:Lane A:0.5 mg HepG2 Whole Cell Lysate2 uL anti-NT5E rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose.Primary antibody:Anti-NT5E rabbit polyclonal antibody,at 1:100 dilution Secondary antibody:Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odssey technique.Performed under reducing conditions.Predicted band size: 63 kDaObserved band size: 63 kDa

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NT5E. It may not necessarily be applicable to this product.

NCBI GI #	4505467
NCBI GeneID	4907
NCBI Accession #	NP_002517.1
UniProt Primary Accession #	P21589
UniProt Secondary Accession #	O75520; Q5W116; B3KQI8
UniProt Related Accession #	P21589
GenBank Nucleotide #	NM_002526.3
NCBI Official Full Name	5'-nucleotidase isoform 1 preproprotein
NCBI Official Synonym Full Names	5'-nucleotidase, ecto (CD73)
NCBI Official Symbol	NT5E

NCBI Official Synonym Symbols	NT; eN; NT5; NTE; eNT; CD73; E5NT; CALJA
UniProt Protein Name	5'-nucleotidase
UniProt Synonym Protein Names	Ecto-5'-nucleotidase; CD_antigen: CD73
UniProt Gene Name	NT5E
UniProt Synonym Gene Names	NT5; NTE; 5'-NT
UniProt Entry Name	5NTD_HUMAN
NCBI Protein Information	5'-nucleotidase; 5'-NT; ecto-5'-nucleotidase; Purine 5-Prime-Nucleotidase
NCBI Summary for NT5E	The protein encoded by this gene is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The encoded protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]
UniProt Comments for NT5E	NT5E: Hydrolyzes extracellular nucleotides into membrane permeable nucleosides. Homodimer; disulfide-linked. Belongs to the 5'-nucleotidase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.5; Membrane protein, integral; Nucleotide Metabolism - pyrimidine; Nucleotide Metabolism - purine; Phosphatase (non-protein); Membrane protein, GPI anchor; Cofactor and Vitamin Metabolism - nicotinate and nicotinamide Chromosomal Location of Human Ortholog: 6q14-q21 Cellular Component: cell surface; membrane; cytoplasm; plasma membrane Molecular Function: 5'-nucleotidase activity; metal ion binding; nucleotide binding Biological Process: pyrimidine nucleoside catabolic process; dephosphorylation; pyrimidine base metabolic process; nucleobase, nucleoside and nucleotide metabolic process; adenosine biosynthetic process; negative regulation of inflammatory response; purine nucleotide catabolic process; DNA metabolic process; purine base metabolic process; AMP catabolic process Disease: Calcification Of Joints And Arteries
Research Articles on NT5E	**1.** ecto-nucleotidases CD39 and CD73 are expressed in human endometrial tumors
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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