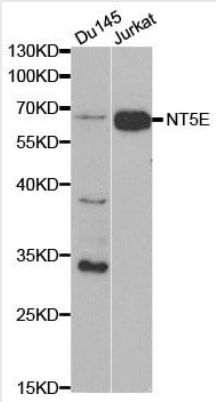
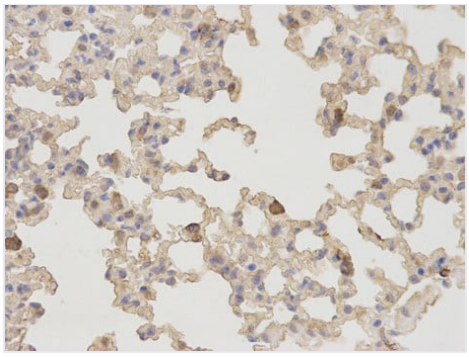
NT5E Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

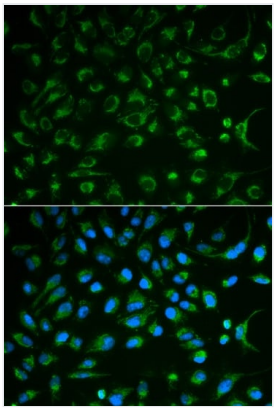
Product Name	NT5E, Polyclonal Antibody
Full Product Name	NT5E Antibody
Product Gene Name	anti-NT5E antibody
Product Synonym Names	CD73; E5NT; NT; NT5; NTE; eN; Ent
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	57,949 Da
OMIM	129190
Immunogen	Recombinant protein of human NT5E
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-14682 / sc-14684 / sc-25603
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NT5E antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Related Product Information for anti-NT5E antibody	Ecto-5'nucleotidase (NT5E, also called CD73) is a 70 kDa glycosyl phosphatidylinositol-anchored membrane-bound glycoprotein that catalyzes the hydrolysis of extracellular nucleoside monophosphates into bioactive nucleoside (1). NT5E catalyzes the terminal step of extracellular adenosine formation from adenosine-monophosphate, therefore driving the regulation of extracellular adenosine levels and the downstream activation of the four G protein-coupled adenosine receptors (2). Binding of hypoxia-inducible factor (HIF-1) to the NT5E gene promotor leads to upregulation of NT5E during hypoxia (3). NT5E biological roles span from lymphocyte adhesion (4, 5), to fibrosis (6), to regulation of nociception (7, 8).
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	MBS2524904 is an antibody targeting NT5E. Also known as NT5E Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-NT5E antibody
Western blot analysis of extracts of various cell lines, using NT5E antibody



Immunohistochemistry (IHC) of anti-NT5E antibody
Immunohistochemistry of paraffin-embedded mouse lung using NT5E antibody at dilution of 1:100 (400x lens).



Immunofluorescence (IF) of anti-NT5E antibody
Immunofluorescence analysis of MCF7 cell using NT5E antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

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

NCBI GI #	16198518
NCBI GeneID	4907
NCBI Accession #	AAH15940.1
UniProt Secondary Accession #	O75520; Q5W116; B3KQI8
UniProt Related Accession #	P21589
NCBI Official Full Name	NT5E protein
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; Purine 5-Prime-Nucleotidase; ecto-5'-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: Nucleotide Metabolism - pyrimidine; Nucleotide Metabolism - purine; Membrane protein, GPI anchor; Phosphatase (non-protein); EC 3.1.3.5; Membrane protein, integral; 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; pyrimidine base metabolic process; dephosphorylation; nucleobase, nucleoside and nucleotide metabolic process; negative regulation of inflammatory response; adenosine biosynthetic process; 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.** novel genetic causes of human disease suggest that the syndrome of premature arterial calcification due to NT5E mutations may also involve a novel "trafficking-opathy".
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/nt5e/2524904