

Mouse CD73/NT5E ELISA Kit | NT5E elisa kit

Mouse CD73/NT5E ELISA Kit PicoKine

CATALOG # AAA126680	REACTIVITY Mouse	APPLICATIONS ELISA
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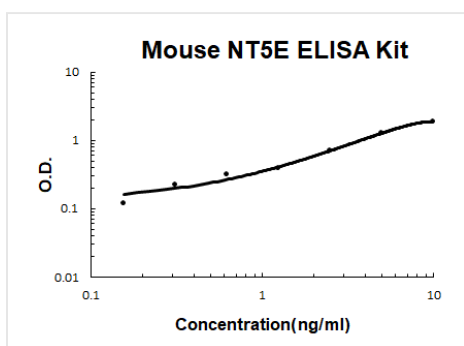
PRODUCT SYNONYMS

CD73/NT5E; Mouse CD73/NT5E ELISA Kit PicoKine; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; membrane form; N-terminal fragment; NTF; Intracellular domain 1; ICD1; Intracellular domain 2; ICD2; C-domain 1; C-domain 2; soluble form; Tnf; Tnfa; Tnfsf2; 5' nucleotidase; ecto; NT5E elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Nt5e
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	0.156 ng/ml - 10 ng/ml
Sensitivity	<20 pg/ml
Applicable Applications for NT5E elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Mouse NT5E PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for NT5E elisa kit	Background: 5'-nucleotidase (5'-NT), also known as ecto-5'-nucleotidase or CD73 (Cluster of Differentiation 73), is an enzyme that in humans is encoded by the NT5E gene. Ecto-5'-nucleotidase 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. And the enzyme is used as a marker of lymphocyte differentiation. Consequently, a deficiency of NT5 occurs in a variety of immunodeficiency diseases. 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. Rare allelic variants are associated with a syndrome of adult-onset calcification of joints and arteries (CALJA) affecting the iliac, femoral, and tibial arteries reducing circulation in the legs and the joints of the hands and feet causing pain. Principle of the Assay: The Picokine™ Mouse Nt5e Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Nt5e with a 96-well strip plate that is pre-coated with antibody specific for Nt5e. The detection antibody is a biotinylated antibody specific for Nt5e. The capture antibody is a monoclonal antibody from rat and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Mouse Nt5e protein as standards. To measure Mouse Nt5e, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Mouse Nt5e in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Nt5e in the sample.
Product Categories/Family for NT5E elisa kit	PicoKine ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	13431280
NCBI GeneID	23959
UniProt Accession #	Q61503; Q3U3S1
Molecular Weight	63,864 Da
NCBI Official Full Name	5'-nucleotidase
NCBI Official Synonym Full Names	5' nucleotidase, ecto
NCBI Official Symbol	Nt5e
NCBI Official Synonym Symbols	NT; Nt5; eNT; CD73; 5'-NT; AI447961; 2210401F01Rik
NCBI Protein Information	5'-nucleotidase
UniProt Protein Name	5'-nucleotidase
UniProt Gene Name	Nt5e
UniProt Synonym Gene Names	Nt5; Nte; 5'-NT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.