

## Human CD73/NT5E AccuSignal ELISA Kit - KOA0859

**Code:** KOA0859

**Size:** 1 Kit

**Product Description:** Human CD73/NT5E AccuSignal ELISA Kit - KOA0859

**PhysicalState:**

<b>Label</b>	Unconjugated
<b>Gene Name</b>	NT5E
<b>Species Reactivity</b>	Human
<b>Storage Condition</b>	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
<b>Synonyms</b>	5' NT, 5' nucleotidase (CD73) 5' nucleotidase precursor, 5' nucleotidase ecto, 5' nucleotidase ecto (CD73), 5'-NT, 5'-nucleotidase, 5NTD_HUMAN, CD73, CD73 antigen, E5NT, Ecto 5' nucleotidase, Ecto-5'-nucleotidase, eN, eNT, NT, NT5, NT5E, NTE, Purine 5 Prime Nucleotidase
<b>Application Note</b>	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human CD73 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum and plasma (heparin, EDTA) to each empty well. It is recommended that each human CD73 standard solution and each sample be measured in duplicate.
<b>Background</b>	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'-prime-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.
<b>Purity And Specificity</b>	Natural and recombinant human CD73. There is no detectable cross-reactivity with other relevant proteins.
<b>ELISA</b>	31.2pg/ml-2000pg/ml
<b>Expiration</b>	See kit insert for complete instructions.
<b>Immunogen</b>	Expression system for standard: CHO; Immunogen sequence: W27-K547
<b>Anti-Coagulant</b>	Heparin Sodium

**Related Products**

MB-008	10X PBS pH 7.2 (0.2 M Potassium Phosphate 1.5 M Sodium Chloride) - MB-008
MB-012	10X TBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride) - MB-012
MB-013	10X TTBS pH 7.5 (1.0 M Tris HCl 1.5 M Sodium Chloride 0.1% (w/v) Tween-20) - MB-013
MB-075-1000	10X PBST (0.2 M Potassium Phosphate 1.5 M Sodium Chloride, 0.5% (v/v) Tween-20, pH 7.2) - MB-075-1000

**Related Links**

UniProtKB - P21589

<http://www.uniprot.org/uniprot/P21589>

 NCBI - [http://www.ncbi.nlm.nih.gov/protein/NP\\_001191742.1](http://www.ncbi.nlm.nih.gov/protein/NP_001191742.1)

GeneID - 4907

<http://www.ncbi.nlm.nih.gov/sites/entrez?db=gene&term=4907>

KOA0859 Protocol <http://www.rockland-inc.com/uploadedfiles/Support/KOA0859.pdf>

## **Disclaimer**

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