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## Datasheet for ABIN6720156 CD73 ELISA Kit

### Overview

Quantity:	1 kit
Target:	CD73 (NT5E)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: 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</p> <p>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'-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</p>

## Product Details

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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.

Gene Name: NT5E

Production: Natural and recombinant human CD73. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: CHO, Immunogen sequence: W27-K547

## Target Details

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Target:	CD73 (NT5E)
Alternative Name:	CD73 - NT5E ( <a href="#">NT5E Products</a> )
Gene ID:	4907
NCBI Accession:	<a href="#">NP_001191742</a>
UniProt:	<a href="#">P21589</a>
Pathways:	<a href="#">Synaptic Membrane</a> , <a href="#">Ribonucleoside Biosynthetic Process</a>

## Application Details

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Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 31.2pg/mL-2000pg/mL</p>
Sample Volume:	100 µL

## Application Details

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Plate: Pre-coated

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Restrictions: For Research Use only

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## Handling

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Storage: RT, 4 °C, -20 °C

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Storage Comment: 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.