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## Datasheet for ABIN6720027 CD97 ELISA Kit

### Overview

Quantity:	1 kit
Target:	CD97
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	125 pg/mL - 8000 pg/mL
Minimum Detection Limit:	125 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: CD 97, CD_antigen=CD97, CD97, CD97 antigen, CD97 antigen subunit beta, CD97 Molecule, CD97_HUMAN, Leukocyte antigen CD97, Seven span transmembrane protein, Seven transmembrane helix receptor, Seven transmembrane heterodimeric receptor associated with inflammation, TM7LN 1, TM7LN1</p> <p>Background: Cluster of differentiation 97 is a protein also known as BL-Ac [F2] encoded by the ADGRE5 gene. The CD97 gene is mapped to 19p13.2-p13.12 by fluorescence in situ hybridization. In the immune system, CD97 is known as a critical mediator of host defense. Upon lymphoid, myeloid cells and neutrophil activation, CD97 is upregulated to promote</p>

## Product Details

adhesion and migration to sites of inflammation. Moreover, it has been shown that CD97 regulates granulocyte homeostasis. CD97 is expressed at the sarcoplasmic reticulum and the peripheral sarcolemma in skeletal muscle. However, lack of CD97 only affects the structure of the sarcoplasmic reticulum, but not the function of skeletal muscle.

Gene Name: ADGRE5

Production: Natural and recombinant human CD97. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: Q21-Q398

## Target Details

Target: CD97

Alternative Name: CD97 ([CD97 Products](#))

Gene ID: 976

NCBI Accession: [NP\\_001020331](#)

UniProt: [P48960](#)

## Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 8000pg/mL, 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL human CD97 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 or plasma(heparin, EDTA) to each empty well. It is recommended that each human CD97 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 125pg/mL-8000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

## Handling

Storage: RT,4 °C,-20 °C

## Handling

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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.