

Datasheet for ABIN1889407  
**CD320 ELISA Kit**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	96 tests
Target:	CD320
Binding Specificity:	AA 36-229
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD320/8D6A
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S36-Y229
Specificity:	Expression system for standard: NSO Immunogen sequence: S36-Y229
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

Target:	CD320
Alternative Name:	CD320 ( <a href="#">CD320 Products</a> )
Background:	<p>Protein Function: Germinal center-B (GC-B) cells differentiate into memory B-cells and plasma cells (PC) through interaction with T-cells and follicular dendritic cells (FDC). CD320 augments the proliferation of PC precursors generated by IL-10. Receptor for the cellular uptake of transcobalamin bound cobalamin. .</p> <p>Background: CD320(cluster of differentiation 320), also known as 8D6A or TCBLR, is a human gene. It is mapped to chromosome 19p13.2. This gene encodes the transcobalamin receptor that is expressed at the cell surface. It mediates the cellular uptake of transcobalamin bound cobalamin(vitamin B12), and the expression of CD320 enhanced B-cell proliferation and immunoglobulin secretion. Mutations in this gene are associated with methylmalonic aciduria. It has been found that antagonists of the CD320 signaling pathway may counter the growth of follicular lymphomas or other tumors that metastasize to lymphoid follicles. CD320 is also a specific receptor for uptake of TCN2-bound cobalamin.</p> <p>Synonyms: CD320 antigen,8D6 antigen,FDC-signaling molecule 8D6,FDC-SM-8D6,Transcobalamin receptor,TCbIR,CD320,CD320,8D6A,UNQ198/PRO224,</p> <p>Full Gene Name: CD320 antigen</p> <p>Cellular Localisation: Membrane, Single-pass type I membrane protein.</p>
Gene ID:	51293
UniProt:	<a href="#">Q9NPF0</a>

## Application Details

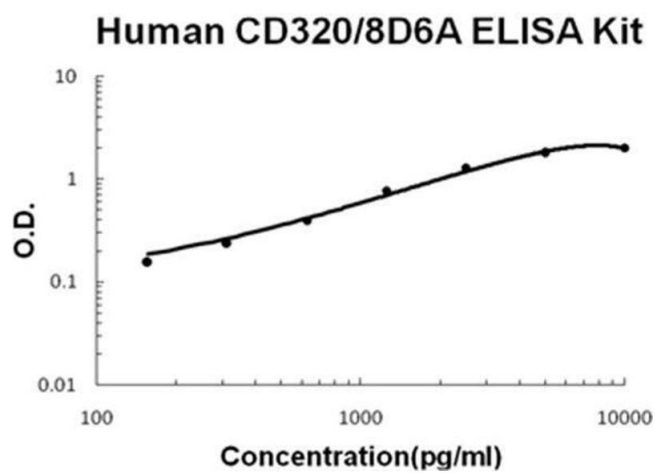
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Tissue Specificity: Expressed abundantly on follicular dendritic cells (FDCs). .

## Application Details

Plate:	Pre-coated
Protocol:	human CD320 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD320 has been precoated onto 96-well plates. Standards(NSO, S36-Y229) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD320 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human CD320 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human CD320 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, plasma(heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human CD320 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none"><li>• Sample 1: n=16, Mean(ng/ml): 1.1, Standard deviation: 0.042, CV(%): 3.8</li><li>• Sample 2: n=16, Mean(ng/ml): 3.2, Standard deviation: 0.14, CV(%): 4.5</li><li>• Sample 3: n=16, Mean(ng/ml): 6.3, Standard deviation: 0.31, CV(%): 4.9,</li><li>• Sample 1: n=24, Mean(ng/ml): 1.3, Standard deviation: 0.08, CV(%): 6.2</li><li>• Sample 2: n=24, Mean(ng/ml): 3.4, Standard deviation: 0.194, CV(%): 5.7</li><li>• Sample 3: n=24, Mean(ng/ml): 5.9, Standard deviation: 0.313, CV(%): 5.3</li></ul>
Restrictions:	For Research Use only

## Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C, 4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



**ELISA**

**Image 1.** Human CD320/8D6A PicoKine ELISA Kit standard curve