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# Datasheet for ABIN1889384 CD5 ELISA Kit

Image



#### Overview

Quantity:	96 tests
Target:	CD5
Binding Specificity:	AA 25-371
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	93.7-6000 pg/mL
Minimum Detection Limit:	93.7 pg/mL
Application:	ELISA

## Product Details

Brand:       PicoKine <sup>™</sup> Sample Type:       Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)         Analytical Method:       Quantitative         Detection Method:       Colorimetric	e CD5
Analytical Method:     Quantitative       Detection Method:     Colorimetric	
Detection Method: Colorimetric	
Immunogen: Expression system for standard: NSO Immunogen sequence: R25-N371	
Specificity:Expression system for standard: NSOImmunogen sequence: R25-N371	
Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.	

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#### 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

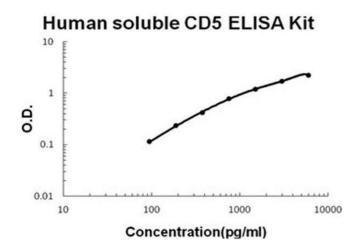
Target:	CD5
Alternative Name:	CD5 (CD5 Products)
Background:	Protein Function: May act as a receptor in regulating T-cell proliferation.
	Background: CD5, also known as T1 or LEU1, is a cluster of differentiation found on a subset of
	IgM-secreting B cells called B-1 cells, and also on T cells. It is mapped to 11q12.2. Although
	CD5 can be found on both T cells and B cells, T cells express higher levels of CD5 than B cells.
	CD5 was used as a T-cell marker until monoclonal antibodies against CD3 were developed. CD5
	is upregulated on T cells upon strong activation. In the thymus, there is a correlation with CD5 $$
	expression and strength of the interaction of the T cell towards self-peptides. Nevertheless,
	CD5 serves to mitigate activating signals from the BCR so that the B-1 cells can only be
	activated by very strong stimuli(such as bacterial proteins) and not by normal tissue proteins.
	Synonyms: T-cell surface glycoprotein CD5,Lymphocyte antigen T1/Leu-1,CD5,CD5,LEU1,
	Full Gene Name: T-cell surface glycoprotein CD5
	Cellular Localisation: Cell membrane, Single-pass type I membrane protein.
Gene ID:	921
UniProt:	P06127
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.
Plate:	Pre-coated

Protocol:human CD5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay<br/>technology. A monoclonal antibody from mouse specific for CD5 has been precoated onto 96-<br/>well plates. Standards(NSO, R25-N371) and test samples are added to the wells, a biotinylated<br/>detection polyclonal antibody from goat specific for CD5 is added subsequently and then

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### **Application Details**

	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 CD5 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/m human CD5 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. See "Sample Dilution Guideline" above for details. It is recommended that each human CD5 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul> <li>Sample 1: n=16, Mean(ng/ml): 0.37, Standard deviation: 0.023, CV(%): 6.2</li> <li>Sample 2: n=16, Mean(ng/ml): 0.85, Standard deviation: 0.041, CV(%): 4.8</li> <li>Sample 3: n=16, Mean(ng/ml): 4.27, Standard deviation: 0.167, CV(%): 3.9,</li> <li>Sample 1: n=24, Mean(ng/ml): 0.38, Standard deviation: 0.031, CV(%): 8.2</li> <li>Sample 2: n=24, Mean(ng/ml): 0.92, Standard deviation: 0.699, CV(%): 7.6</li> <li>Sample 3: n=24, Mean(ng/ml): 4.31, Standard deviation: 0.311, CV(%): 7.2</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 soluble CD5 PicoKine ELISA Kit standard

curve

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