

Datasheet for ABIN1889385

**CD6 ELISA Kit**[Go to Product page](#)**1** Image

## Overview

Quantity:	96 tests
Target:	CD6
Binding Specificity:	AA 18-398
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 soluble CD6
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: H18-E398
Specificity:	Expression system for standard: NSO Immunogen sequence: H18-E398
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:	CD6
Alternative Name:	CD6 ( <a href="#">CD6 Products</a> )
Background:	<p>Protein Function: Involved in cell adhesion. Binds to CD166.</p> <p>Background: CD6(Cluster of Differentiation 6) is a human protein encoded by the CD6 gene. It is mapped to 11q12.2. CD6 is expressed predominantly in peripheral T cells and mature medullary thymocytes. This gene encodes a protein found on the outer membrane of T-lymphocytes as well as some other immune cells. The encoded protein contains three scavenger receptor cysteine-rich(SRCR) domains and a binding site for an activated leukocyte cell adhesion molecule. The gene product is important for continuation of T cell activation. What's more, this gene may be associated with susceptibility to multiple sclerosis.</p> <p>Synonyms: T-cell differentiation antigen CD6,T12,TP120,CD6,CD6,</p> <p>Full Gene Name: T-cell differentiation antigen CD6</p> <p>Cellular Localisation: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	923
UniProt:	<a href="#">P30203</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 by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain.
Plate:	Pre-coated
Protocol:	human CD6 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD6 has been precoated onto 96-well plates. Standards(NSO, H18-E398) and test samples are added to the wells, a biotinylated

## Application Details

detection polyclonal antibody from goat specific for CD6 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 CD6 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 CD6 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 CD6 standard solution and each sample be measured in duplicate.

**Assay Precision:**

- Sample 1: n=16, Mean(ng/ml): 1.22, Standard deviation: 0.065, CV(%): 5.3
- Sample 2: n=16, Mean(ng/ml): 3.17, Standard deviation: 0.149, CV(%): 4.7
- Sample 3: n=16, Mean(ng/ml): 6.37, Standard deviation: 0.178, CV(%): 2.8,
- Sample 1: n=24, Mean(ng/ml): 1.24, Standard deviation: 0.086, CV(%): 6.9
- Sample 2: n=24, Mean(ng/ml): 3.24, Standard deviation: 0.204, CV(%): 6.3
- Sample 3: n=24, Mean(ng/ml): 6.49, Standard deviation: 0.376, CV(%): 5.8

**Restrictions:** For Research Use only

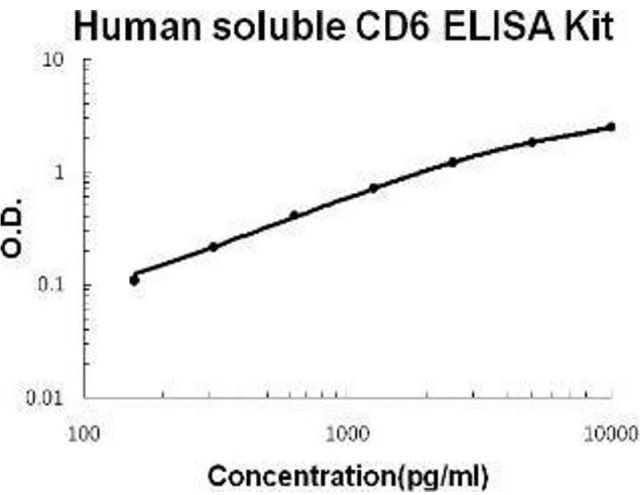
## Handling

**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 CD6 PicoKine ELISA Kit standard curve