.-online.com antibodies

Datasheet for ABIN1889451 CD48 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	CD48
Binding Specificity:	AA 23-217
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse CD48
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: F23-S217
Specificity:	Expression system for standard: NSO Immunogen sequence: F23-S217
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN1889451 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

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

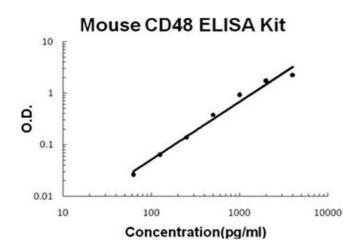
Target Details

Target:	CD48
Alternative Name:	CD48 (CD48 Products)
Background:	Protein Function: Ligand for CD2. Might facilitate interaction between activated lymphocytes.
	Probably involved in regulating T-cell activation.
	Background: CD48 antigen(Cluster of Differentiation 48), also known as BLAST-1 or SLAMF2, is
	a protein that in humans is encoded by the CD48 gene. CD48 is a member of the CD2 subfami
	of the immunoglobulin superfamily(IgSF) which includes SLAM(signaling lymphocyte activatio
	molecules) proteins, such as CD84, CD150, CD229 and CD244. It is mapped to 1q23.3. CD48 is
	found on the surface of lymphocytes and other immune cells, dendritic cells and endothelial
	cells, and participates in activation and differentiation pathways in these cells. The encoded
	protein does not have a transmembrane domain, however, but is held at the cell surface by a
	GPI anchor via a C-terminal domain which maybe cleaved to yield a soluble form of the
	receptor.
	Synonyms: CD48 antigen,BCM1 surface antigen,BLAST-1,HM48-1,MRC 0X-45 surface
	antigen,SLAM family member 2,SLAMF2,Signaling lymphocytic activation molecule 2,sgp-
	60,CD48,Cd48,Bcm-1,
	Full Gene Name: CD48 antigen
	Cellular Localisation: Cell membrane, Lipid-anchor, GPI-anchor.
Gene ID:	12506
UniProt:	P18181
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:	Sequence similarities: Contains 2 Ig-like C2-type (immunoglobulin-like) domains.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN1889451 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
Plate:	Pre-coated
Protocol:	mouse CD48 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from rat specific for CD48 has been precoated onto 96-well
	plates. Standards(NSO, F23-S217) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for CD48 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 mouse CD48 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL,
	125pg/mL, 62.5pg/mL mouse CD48 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to
	each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
	each mouse CD48 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 382, Standard deviation: 13.37, CV(%): 3.5
	• Sample 2: n=16, Mean(pg/ml): 1554, Standard deviation: 65.27, CV(%): 4.2
	 Sample 3: n=16, Mean(pg/ml): 2790, Standard deviation: 131.13, CV(%): 4.7, Sample 1: n=24, Mean(pg/ml): 426, Standard deviation: 19.17, CV(%): 4.5
	 Sample 1: n=24, Mean(pg/ml): 1713, Standard deviation: 90.79, CV(%): 5.3
	• Sample 3: n=24, Mean(pg/ml): 3225, Standard deviation: 187.05, 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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN1889451 | 09/11/2023 | Copyright antibodies-online. All rights reserved.



ELISA

Image 1. Mouse CD48 PicoKine ELISA Kit standard curve

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN1889451 | 09/11/2023 | Copyright antibodies-online. All rights reserved.