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Datasheet for ABIN1672779 CD163 ELISA Kit

Image



## Overview

Quantity:	96 tests
Target:	CD163
Binding Specificity:	AA 41-1045
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD163	
Brand:	PicoKine™	
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)	
Analytical Method:	Quantitative	
Detection Method:	Colorimetric	
Immunogen:	Expression system for standard: NSO Immunogen sequence: G41-S1045	
Specificity:	Expression system for standard: NSO Immunogen sequence: G41-S1045	
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.	

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Sensitivity:	<150pg/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:	CD163
Alternative Name:	CD163 (CD163 Products)
Background:	Protein Function: Acute phase-regulated receptor involved in clearance and endocytosis of
	hemoglobin/haptoglobin complexes by macrophages and may thereby protect tissues from
	free hemoglobin-mediated oxidative damage. May play a role in the uptake and recycling of
	iron, via endocytosis of hemoglobin/haptoglobin and subsequent breakdown of heme. Binds
	hemoglobin/haptoglobin complexes in a calcium-dependent and pH -dependent manner.
	Exhibits a higher affinity for complexes of hemoglobin and multimeric haptoglobin of HP*1F
	phenotype than for complexes of hemoglobin and dimeric haptoglobin of HP*1S phenotype.
	Induces a cascade of intracellular signals that involves tyrosine kinase-dependent calcium
	mobilization, inositol triphosphate production and secretion of IL6 and CSF1. Isoform 3 exhibit
	the higher capacity for ligand endocytosis and the more pronounced surface expression when
	expressed in cells.
	Background: CD163(Cluster of Differentiation 163) is a human protein encoded by the CD163
	gene. It has also been shown to mark cells of monocyte/macrophage lineage. CD163, a
	member of the scavenger receptor cysteine-rich(SRCR) superfamily, is exclusively expressed b
	monocytes and macrophages. Using FISH, somatic cell hybrid analysis, and radiation hybrid
	analysis, CD163 gene was mapped the to chromosome 12p13.3. CD163 is upregulated in a
	large range of diseases inflammatory diseases including type 2 diabetes, macrophage
	activation sickness, Tangier's disease, reumatoid arthritis etc.
	Synonyms: Scavenger receptor cysteine-rich type 1 protein M130,Hemoglobin scavenger
	receptor,CD163,Soluble CD163,sCD163,CD163,M130,
	Full Gene Name: Scavenger receptor cysteine-rich type 1 protein M130
	Cellular Localisation: Soluble CD163: Secreted.
Gene ID:	9332
JniProt:	Q86VB7

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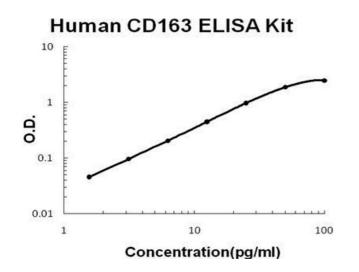
Application Details		
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well	
	assay was recommended for both standard and sample testing.	
Comment:	Sequence similarities: Contains 9 SRCR domains.	
	Tissue Specificity: Expressed in monocytes and mature macrophages such as Kupffer cells in	
	the liver, red pulp macrophages in the spleen, cortical macrophages in the thymus, resident	
	bone marrow macrophages and meningeal macrophages of the central nervous system.	
	Expressed also in blood. Isoform 1 is the lowest abundant in the blood. Isoform 2 is the lowest	
	abundant in the liver and the spleen. Isoform 3 is the predominant isoform detected in the	
	blood	
Plate:	Pre-coated	
Protocol:	human CD163 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent	
	assay technology. A monoclonal antibody from mouse specific for CD163 has been precoated	
	onto 96-well plates. Standards(NSO, G41-S1045) and test samples are added to the wells, a	
	biotinylated detection polyclonal antibody from goat specific for CD163 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 CD163 amount of sample captured in plate.	
Assay Procedure:	Aliquot 0.1 mL per well of the 100 ng/mL,50 ng/mL,	
	25 ng/mL,12.5 ng/mL,6.25 ng/mL,3.13 ng/mL,1.56 ng/mL human CD163 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 supernatants,	
	serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details	
	We recommend that each human CD163 standard solution and each sample is measured in	
	duplicate.	
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 24, Standard deviation: 1.008, CV(%): 4.2	
	<ul> <li>Sample 2: n=16, Mean(ng/ml): 38.1, Standard deviation: 1.715, CV(%): 4.5</li> </ul>	
	<ul> <li>Sample 3: n=16, Mean(ng/ml): 65, Standard deviation: 3.445, CV(%): 5.3,</li> <li>Sample 1: n= 24, Mean (ng (ng (ng (ng (ng (ng (ng (ng (ng (n</li></ul>	
	<ul> <li>Sample 1: n=24, Mean(ng/ml): 23, Standard deviation: 1.541, CV(%): 6.7</li> <li>Sample 2: n=24, Mean(ng/ml): 37.2, Standard deviation: 2.009, CV(%): 5.4</li> </ul>	
	<ul> <li>Sample 2: n=24, Mean(ng/ml): 57, 2, Standard deviation: 3.752, CV(%): 5.6</li> </ul>	
Restrictions:	For Research Use only	

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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

Images



## **ELISA**

Image 1. Human CD163 PicoKine ELISA Kit standard curve