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Datasheet for ABIN411395 CXCL9 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	CXCL9
Binding Specificity:	AA 23-125
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CXCL9
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: T23-T125
Specificity:	Expression system for standard: E.coli Immunogen sequence: T23-T125
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<2pg/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:	CXCL9
Alternative Name:	CXCL9 (CXCL9 Products)
Background:	Protein Function: Cytokine that affects the growth, movement, or activation state of cells that
	participate in immune and inflammatory response. Chemotactic for activated T-cells. Binds to
	CXCR3.
	Background: Chemokine(C-X-C motif) ligand 9(CXCL9) is a small cytokine belonging to the CXC
	chemokine family that is also known as Monokine induced by gamma interferon(MIG). CXCL9
	is a T-cell chemoattractant, which is induced by IFN-gamma. It is closely related to two other
	CXC chemokines called CXCL10 and CXCL11, whose genes are located near the gene for
	CXCL9 on human chromosome 4.1, 2 CXCL9, CXCL10 and CXCL11 all elicit their chemotactic
	functions by interacting with the chemokine receptor CXCR3.3 The standard product used in
	this kit is recombinant human CXCL9, consisting of 103 amino acids with the molecular mass
	of 11.7KDa.
	Synonyms: C-X-C motif chemokine 9,Gamma-interferon-induced monokine,Monokine induced
	by interferon-gamma,HuMIG,MIG,Small-inducible cytokine B9,CXCL9,CMK, MIG, SCYB9,
	Full Gene Name: C-X-C motif chemokine 9
	Cellular Localisation: Secreted.
Gene ID:	4283
UniProt:	Q07325

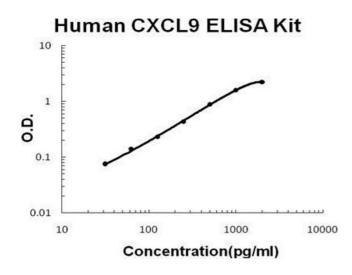
Application Details

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: Belongs to the intercrine alpha (chemokine CxC) family.
Plate:	Pre-coated

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Application Details

Protocol:	human CXCL9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for CXCL9 has been precoated
	onto 96-well plates. Standards(E.coli, T23-T125) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for CXCL9 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 CXCL9 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL,
	62.5pg/mL, 31.2pg/mL human CXCL9 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 CXCL9 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 249, Standard deviation: 11.5, CV(%): 4.6
	 Sample 2: n=16, Mean(pg/ml): 834, Standard deviation: 35.03, CV(%): 4.2
	 Sample 3: n=16, Mean(pg/ml): 1573, Standard deviation: 64.5, CV(%): 4.1,
	 Sample 1: n=24, Mean(pg/ml): 231, Standard deviation: 14.1, CV(%): 6.1
	 Sample 2: n=24, Mean(pg/ml): 759, Standard deviation: 63.8, CV(%): 8.4
	 Sample 3: n=24, Mean(pg/ml): 1628, Standard deviation: 117.2, CV(%): 7.2
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 CXCL9 PicoKine ELISA Kit standard curve

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