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CXCL2 ELISA Kit



Publications



Overview

Quantity:	96 tests
Target:	CXCL2
Binding Specificity:	AA 28-100
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse MIP-2
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: A28-N100
Specificity:	Expression system for standard: E.coli Immunogen sequence: A28-N100
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

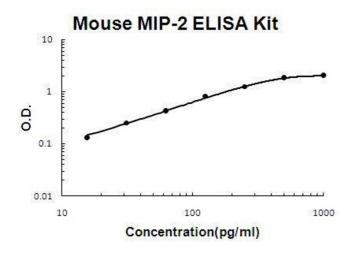
Sensitivity:	<5pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	CXCL2
Alternative Name:	CXCL2 (CXCL2 Products)
Background:	Protein Function: Chemotactic for human polymorphonuclear leukocytes but does not induce
	chemokinesis or an oxidative burst.
	Background: MIP is a member of the aquaporin family of membrane-bound water channels.
	MIP family proteins are thought to contain 6 TM domains. Sequence analysis suggests that the
	proteins may have arisen through tandem, intragenic duplication from an ancestral protein that
	contained 3 TM domains. Major intrinsic protein(MIP, also called MP26) is the predominant
	fiber cell membrane protein of the ocular lens. The major intrinsic protein(MIP) of the vertebrate
	eye lens is the first identified member of a sequence-related family of cell-membrane proteins
	that appears to have evolved by gene duplication. Several members of the MIP family transport
	water(aquaporins), glycerol and other small molecules in microbial, plant and animal cells. The
	standard used in this kit is recombinant mouse MIP-2(A28-N100), consisting of 73 amino acids
	with the molecular mass of 8KDa.
	Synonyms: C-X-C motif chemokine 2,Macrophage inflammatory protein 2,MIP2,Cxcl2,Mip-2,
	Mip2, Scyb2,
	Full Gene Name: C-X-C motif chemokine 2
	Cellular Localisation: Secreted.
Gene ID:	20310
UniProt:	P10889
Pathways:	Cellular Response to Molecule of Bacterial Origin
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.

Application Details

Plate:	Pre-coated Pre-coated
Protocol:	mouse MIP-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for MIP-2 has been precoated onto
	96-well plates. Standards(E.coli, A28-N100) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for MIP-2 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 MIP-2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL,
	31.2pg/mL, 15.6pg/mL mouse MIP-2 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 MIP-2 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 113, Standard deviation: 4.41, CV(%): 3.9
	 Sample 2: n=16, Mean(pg/ml): 355, Standard deviation: 17.75, CV(%): 5
	• Sample 3: n=16, Mean(pg/ml): 627, Standard deviation: 40.13, CV(%): 6.4,
	• Sample 1: n=24, Mean(pg/ml): 134, Standard deviation: 8.31, CV(%): 6.2
	 Sample 2: n=24, Mean(pg/ml): 387, Standard deviation: 21.3, CV(%): 5.5 Sample 3: n=24, Mean(pg/ml): 653, Standard deviation: 44.4, CV(%): 6.8
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
Publications	
Product cited in:	Romano, Chiaro, Lucarelli, Santarelli, Cucchiara, Guadagnini, Miele, Di Nardo: "Mucosal cytokir
	profiles in paediatric eosinophilic oesophagitis: A case-control study." in: Digestive and liver

disease: official journal of the Italian Society of Gastroenterology and the Italian Association for the Study of the Liver, (2014) (PubMed).

Images



ELISA

Image 1. Mouse MIP-2 PicoKine ELISA Kit standard curve