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Datasheet for ABIN411393 CXCL1 ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	CXCL1
Binding Specificity:	AA 20-96
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 CXCL1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: R20-K96
Specificity:	Expression system for standard: E.coli Immunogen sequence: R20-K96
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<1pg/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

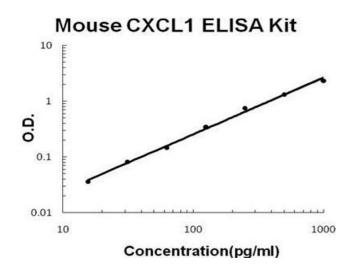
Target:	CXCL1
Alternative Name:	CXCL1 (CXCL1 Products)
Background:	Background: Chemokine(C-X-C motif) ligand 1(CXCL1) is a small cytokine belonging to the CXC chemokine family that was previously called GR01 oncogene, GR0alpha, KC, Neutrophil- activating protein 3(NAP-3) and melanoma growth stimulating activity, alpha(MSGA-alpha). In humans, this protein is encoded by the CXCL1 gene. The gene for CXCL1 is located on human chromosome 4 amongst genes for other CXC chemokines. The mature form of CXCL1 is maximally 73 amino acids long. CXCL1 is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. This chemokine elicits its effects by signaling through the chemokine receptor CXCR2.CXCL1 decreased the severity of multiple sclerosis and may offer a neuro-protective function. Synonyms: C-X-C motif chemokine, Cxcl1, mCG_1708, Full Gene Name: C-X-C motif chemokine
Gene ID:	14825
UniProt:	A2RTH0
Pathways:	Autophagy
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.
Plate:	Pre-coated
Protocol:	mouse CXCL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CXCL1 has been precoated onto

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Application Details

	96-well plates. Standards(E. coli, R20-K96) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for CXCL1 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 CXCL1 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 CXCL1 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 or serum to each empty well. See
	"Sample Dilution Guideline" above for details. It is recommended that each mouse CXCL1
	standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 95.7, Standard deviation: 5.84, CV(%): 6.1
	 Sample 2: n=16, Mean(pg/ml): 279, Standard deviation: 12.56, CV(%): 4.5
	 Sample 3: n=16, Mean(pg/ml): 570, Standard deviation: 36.48, CV(%): 6.4,
	 Sample 1: n=24, Mean(pg/ml): 101.3, Standard deviation: 7.29, CV(%): 7.2
	• Sample 2: n=24, Mean(pg/ml): 268, Standard deviation: 22.78, CV(%): 8.5
	 Sample 3: n=24, Mean(pg/ml): 605, Standard deviation: 41.14, 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:	Agnes, Zekarias, Shao, Anderson, Gershwin, Corbeil: "Bovine respiratory syncytial virus and
	Histophilus somni interaction at the alveolar barrier." in: Infection and immunity, Vol. 81, Issue 7
	, pp. 2592-7, (2013) (PubMed).

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ELISA

Image 1. Mouse CXCL1 PicoKine ELISA Kit standard curve

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