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Datasheet for ABIN411396 CXCL10 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CXCL10
Binding Specificity:	AA 22-98
Reactivity:	Mouse
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 Mouse CXCL10/IP-10
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: I22-P98
Specificity:	Expression system for standard: E.coli Immunogen sequence: I22-P98
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:	CXCL10
Alternative Name:	CXCL10 (CXCL10 Products)
Background:	Protein Function: In addition to its role as a proinflammatory cytokine, may participate in T-cell
	effector function and perhaps T-cell development.
	Background: Chemokine(C-X-C motif) ligand 10(CXCL10) or IP-10 is a small cytokine belonging
	to the CXC chemokine family that is also known as 10 kDa interferon-gamma-induced
	protein(gamma-IP10 or IP-10). CXCL10 is secreted by several cell types in response to IFN-
	gamma. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has
	been attributed to several roles, such as chemoattraction for monocytes/macrophages, T cells
	NK cells, and dendritic cells, promotion of T cell adhesion to endothelial cells, antitumor activit
	and inhibition of bone marrow colony formation and angiogenesis.It is a potent inhibitor of
	angiogenesis in vivo. The gene for CXCL10 is located on human chromosome 4 in a cluster
	among several other CXC chemokines. It is a RAS target gene and is overexpressed in the
	majority of colorectal cancers. This chemokine elicits its effects by binding to the cell surface
	chemokine receptor CXCR3.
	Synonyms: C-X-C motif chemokine 10,10 kDa interferon gamma-induced protein,Gamma-
	IP10,IP-10,C7,Interferon-gamma induced protein CRG-2,Small-inducible cytokine
	B10,Cxcl10,Crg2, Ifi10, Inp10, Scyb10,
	Full Gene Name: C-X-C motif chemokine 10
	Cellular Localisation: Secreted.
Gene ID:	15945
JniProt:	P17515
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

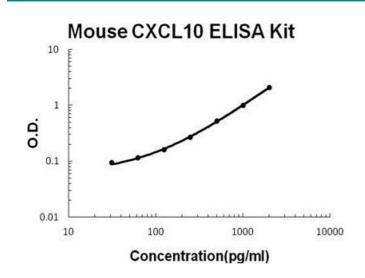
assay was recommended for both standard and sample testing.

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Comment:	Tissue Specificity: Expressed in the spleen, thymus, lymph nodes and liver
Plate:	Pre-coated
Protocol:	mouse CXCL10 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for CXCL10 has been precoated
	onto 96-well plates. Standards(E.coli, I22-P98) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for CXCL10 is added subsequentl
	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 CXCL10 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 mouse CXCL10 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) to each
	empty well. See "Sample Dilution Guideline" above for details. It is recommended that each
	mouse CXCL10 standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 112, Standard deviation: 5.82, CV(%): 5.2
	 Sample 2: n=16, Mean(pg/ml): 259, Standard deviation: 14.5, CV(%): 5.6
	 Sample 3: n=16, Mean(pg/ml): 973, Standard deviation: 70.1, CV(%): 7.2,
	 Sample 1: n=24, Mean(pg/ml): 125, Standard deviation: 12.25, CV(%): 9.8
	 Sample 2: n=24, Mean(pg/ml): 276, Standard deviation: 22.4, CV(%): 8.1 Sample 3: n=24, Mean(pg/ml): 1093, Standard deviation: 84.2, CV(%): 7.7
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:	Wang, Lee, Chou, Yang, Wei, Chen, Yao, Hsu, Zhu, Ying, Ye, Wang, Lim, Xia, Ko, Liu, Liu, Wu,

International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN411396 | 09/12/2023 | Copyright antibodies-online. All rights reserved. Wang, Li, Prakash, Katz, Kang, Kim, Fleming, Fogelman, Javle, Maitra, Hung: " Angiogenin/Ribonuclease 5 Is an EGFR Ligand and a Serum Biomarker for Erlotinib Sensitivity in Pancreatic Cancer." in: **Cancer cell**, Vol. 33, Issue 4, pp. 752-769.e8, (2019) (PubMed).

Images



ELISA

Image 1. Mouse CXCL10/IP-10 PicoKine ELISA Kit standard

curve