Datasheet for ABIN2859233

CXCL3 ELISA Kit

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Overview

Quantity:	96 tests
Target:	CXCL3
Binding Specificity:	AA 32-100
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 CXCL3
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: S32-S100
Specificity:	E.coli, S32-S100
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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:	CXCL3
Alternative Name:	CXCL3 (CXCL3 Products)
Background:	Protein Function: Ligand for CXCR2. Has chemotactic activity for neutrophils. May play a role in inflammation and exert its effects on endothelial cells in an autocrine fashion. . Background: Chemokine (C-X-C motif) ligand 3 (CXCL3) is a small cytokine belonging to the CXC chemokine family. It is mapped to 14p2 in rat. CXCL3 controls migration and adhesion of monocytes and mediates its effects on its target cell by interacting with a cell surface chemokine receptor. It has been shown that CXCL3 regulates cell autonomously the migration of the precursors of cerebellar granule neurons toward the internal layers of cerebellum, during the morphogenesis of cerebellum. CXCL3 also play fundamental roles in the development, homeostasis and it has effects on cells of the central nervous system as well as on endothelial cells involved in angiogenesis or angiostasis. Synonyms: C-X-C motif chemokine 3,Dendritic cell inflammatory protein 1 ,Cxcl3 ,Dcip1 , Gm1960 , Full Gene Name: C-X-C motif chemokine 3 Cellular Localisation: Secreted.
Gene ID:	330122
UniProt:	Q6W5C0
Pathways:	Cellular Response to Molecule of Bacterial Origin, 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 CXCL3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CXCL3 has been precoated onto

Application Details

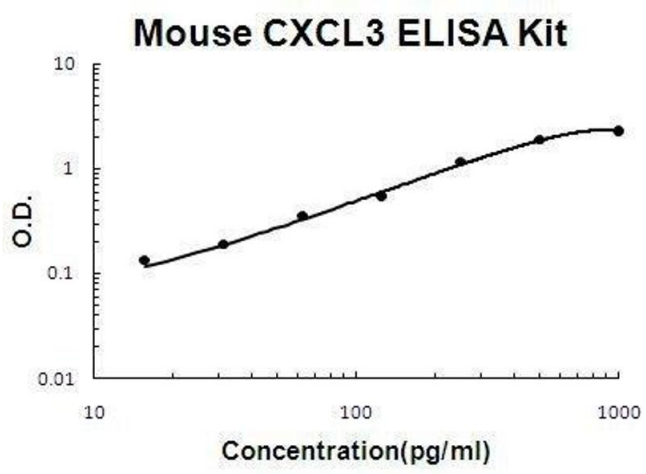
	96-well plates. Standards(E.coli, S32-S100) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CXCL3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were 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 CXCL3 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 CXCL3 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 CXCL3 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 178, Standard deviation: 7.3, CV(%): 4.1 • Sample 2: n=16, Mean(pg/ml): 304, Standard deviation: 11.86, CV(%): 3.9 • Sample 3: n=16, Mean(pg/ml): 569, Standard deviation: 30.2, CV(%): 5.3, • Sample 1: n=24, Mean(pg/ml): 38.2, Standard deviation: 2.56, CV(%): 6.7 • Sample 2: n=24, Mean(pg/ml): 128, Standard deviation: 8.70, CV(%): 6.8 • Sample 3: n=24, Mean(pg/ml): 642, Standard deviation: 49.43, 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:	Pena-Philippides, Caballero-Garrido, Lordkipanidze, Roitbak: "In vivo inhibition of miR-155 significantly alters post-stroke inflammatory response." in: **Journal of neuroinflammation**, Vol. 13, Issue 1, pp. 287, (2017) (PubMed).



ELISA

Image 1. Mouse CXCL3 PicoKine ELISA Kit standard curve