

Rat CXCL1 ELISA Kit | CXCL1 elisa kit

Rat CXCL1 PicoKine ELISA Kit

CATALOG #
AAA45329

REACTIVITY
Rat

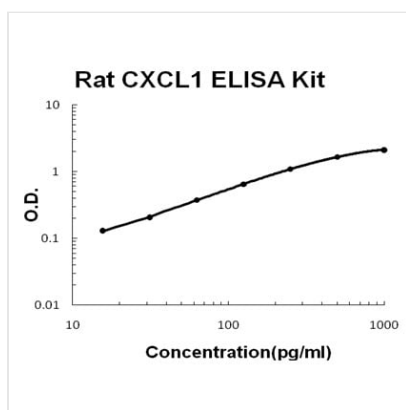
PRODUCT SYNONYMS

CXCL1; Rat CXCL1 PicoKine ELISA Kit; C-X-C motif chemokine 1; chemokine (C-X-C motif) ligand 1; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity; alpha); fibroblast secretory protein; FSP; GRO; GRO1; GRO1 oncogene (melanoma growth stimulating activity; GRO1 oncogene (melanoma growth-stimulating activity); GROa; growth-regulated alpha protein; Melanoma growth stimulatory activity; melanoma growth stimulatory activity alpha; MGSA; MGSA a; MGSA alpha; NAP 3; Neutrophil-activating protein 3; SCYB1; CXCL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat CXCL1
Sequence Length	96
Samples	Cell culture supernates, serum and plasma (EDTA)
Assay Type	Sandwich
Detection Range	15.6pg/ml-1000pg/ml
Sensitivity	< 1pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Rat CXCL1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CXCL1 elisa kit

Principle of the assay: rat CXCL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CXCL1 has been precoated onto 96-well plates. Standards(E. coli, A25-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 rat CXCL1 amount of sample captured in plate.

Background: Chemokine (C-X-C motif) ligand 1 (CXCL1) is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, GROalpha, 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. The standard product used in this kit is recombinant rat CXCL1, consisting of 72 amino acids with the molecular mass of 7.8KDa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1170021
NCBI GeneID	81503
UniProt Accession #	P14095
Molecular Weight	10,249 Da
NCBI Official Full Name	Growth-regulated alpha protein
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 1
NCBI Official Symbol	Cxcl1
NCBI Official Synonym Symbols	Gro1; CINC-1
NCBI Protein Information	growth-regulated alpha protein; C-X-C motif chemokine 1; cytokine-induced neutrophil chemoattractant 1; platelet-derived growth factor-inducible protein KC; chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
UniProt Protein Name	Growth-regulated alpha protein
UniProt Gene Name	Cxcl1
UniProt Synonym Gene Names	Cinc1; Gro; Scyb1; CINC-1
UniProt Entry Name	GROA_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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