

Mouse CXCL1/KC ELISA Kit | CXCL1 elisa kit

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CATALOG #
AAA281322

REACTIVITY
Mouse

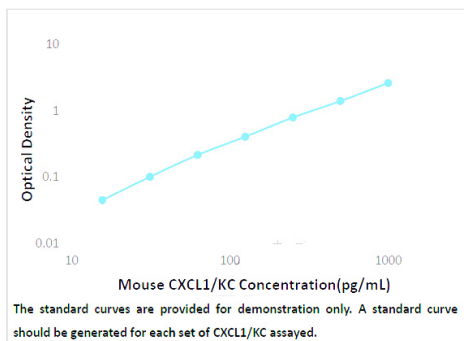
PRODUCT SYNONYMS

CXCL1/KC; Mouse CXCL1/KC ELISA Kit; CXCL1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay recognizes both recombinant and natural mouse CXCL1/KC. The factors listed below were prepared at 50ng/ml and assayed for cross-reactivity.
Sequence Length	107
Samples	Cell culture supernates, serum and plasma
Assay Type	Quantitative Sandwich
Intra-assay Precision	Three samples of known concentration were tested 20 times on one plate to evaluate the Intra-plate precision.
Inter-assay Precision	Three samples of known concentration were tested 20 times separate assays to evaluate the Inter-plate precision. Assay were using two lots of components.
Preparation and Storage	Store at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CXCL1 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for CXCL1/KC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CXCL1/KC present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for CXCL1/KC is added to the wells and binds to the combination of capture antibody-CXCL1/KC in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps, a substrate is added. A colored product TMB is formed in proportion to the amount of CXCL1/KC present in the sample. The reaction is terminated by addition of acid and absorbance is measured. A standard curve is prepared from seven CXCL1/KC standard dilutions and CXCL1/KC sample concentration determined. !!Background/Introduction: CXCL1/GRO alpha, also known as KC in mouse and CINC-1 in rat, is a member of the CXC family of chemokines. Human CXCL1/GRO alpha is 107 amino acids (aa) in length with a predicted molecular weight of 11 kDa. The mouse and rat orthologs share 57% and 59% amino acid sequence identity with the human protein, respectively. Genome-wide analysis suggests that the protein encoded by the mouse Cxcl3 gene is homologous to human CXCL1/GRO alpha protein. Human CXCL1/GRO alpha can be cleaved into three isoforms CXCL1/GRO alpha (aa 4-73), CXCL1/GRO alpha (aa 5-73), and CXCL1/GRO alpha (aa 6-73) which show higher activity than the full length protein. CXCL1/GRO alpha is secreted by mast cells and macrophages whereupon it acts as a chemoattractant for neutrophils.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	545686986
NCBI GeneID	102126138
NCBI Accession #	NP_001270423.1
NCBI GenBank Nucleotide #	NM_001283494.1
NCBI Official Full Name	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
NCBI Official Symbol	CXCL1
NCBI Protein Information	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)

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.