

Mouse GRO Beta/CXCL2 ELISA Kit | GROBeta/CXCL2 elisa kit

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CATALOG #
AAA258470

REACTIVITY
Mouse

PRODUCT SYNONYMS

GRO Beta/CXCL2; Mouse GRO Beta/CXCL2 ELISA Kit; GRO Beta/CXCL2 ELISA Kit; Mouse; chemokine (C-X-C motif) ligand 2; CINC-2a ELISA Kit; Gro2 ELISA Kit; GROb ELISA Kit; Mgsa-b ELISA Kit; MIP-2 ELISA Kit; MIP-2a ELISA Kit; Mip2 ELISA Kit; Scyb ELISA Kit; Scyb2 ELISA Kit; GROBeta/CXCL2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	For the quantitative determination of Mouse GRO Beta/CXCL2 concentration in serum and cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum, Cell supernatant
Detection Range	4.69-300pg/mL
Sensitivity	2.35pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant mouse CXCL2 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

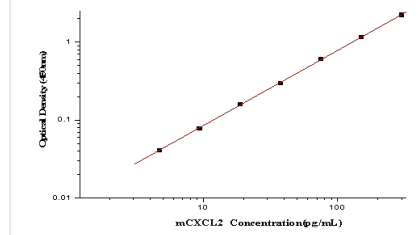
IMAGES

Recombinant human
CCL5
Recombinant mouse
CCL3

Application Data

This assay recognizes both recombinant and natural Mouse CXCL2. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
4.69	0.041
9.38	0.078
18.75	0.161
37.5	0.299
75	0.602
150	1.157
300	2.231



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for GROBeta/CXCL2 elisa kit	This GRO Beta/CXCL2 ELISA Kit, Mouse is an enzyme-linked immunosorbent assay for the quantitative measurement of Mouse GRO Beta/CXCL2 protein in Serum, Cell supernatant. It contains recombinant Mouse GRO Beta/CXCL2, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Chemokine (C-X-C motif) ligand 2 (CXCL2), also called macrophage inflammatory protein 2 (MIP-2), Growth-regulated protein beta (Gro-beta) and Gro oncogene-2 (Gro-2), is a small cytokine belonging to the CXC chemokine family. CXCL2/MIP-2 is selectively up-regulated in tolerance-conferring APCs and serves to recruit NKT cells to the splenic marginal zone, where they form clusters with APCs and T cells. In the absence of the high-affinity receptor for CXCL2/MIP-2 or in the presence of a blocking Ab to CXCL2/MIP-2, peripheral tolerance is prevented, and Ag-specific T regulatory cells are not generated. CXCL2/MIP-2 is selectively up-regulated in tolerance-conferring APCs and serves to recruit NKT cells to the splenic marginal zone, where they form clusters with APCs and T cells. In the absence of the high-affinity receptor for MIP-2 (as in CXCR2-deficient mice) or in the presence of a blocking Ab to MIP-2, peripheral tolerance is prevented, and Ag-specific T regulatory cells are not generated. Understanding the regulation of lymphocyte traffic during tolerance induction may lead to novel therapies for autoimmunity, graft acceptance, and tumor rejection. Several studies have implicated the CXCL2 chemokine as a mediator in the development of sepsis. CXCL2/MIP-2 also plays a major role in mediating the neutrophilic inflammatory response of the rodent lung to particles such as quartz, crocidolite asbestos, as well as high doses of other relative innocuous dusts such as titanium dioxide.
References	Driscoll KE. (2000) TNFalpha and MIP-2: role in particle-induced inflammation and regulation by oxidative stress. Toxicol Lett. 112-113: 177-83. Walpen S, et al. (2001) Nitric oxide induces MIP-2 transcription in rat renal mesangial cells and in a rat model of glomerulonephritis. FASEB J. 15(3): 571-3. Fahey TJ, et al. (1990) Cytokine production in a model of wound healing: the appearance of MIP-1, MIP-2, cachectin/TNF and IL-1. Cytokine. 2(2): 92-9.

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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Online datasheet: <https://stage.aaabiotech.com/grobeta-cxcl2-mouse-elisa-kits/gro-beta-cxcl2/258470>