

Human IP-10/CXCL10 ELISA Kit | IP-10/CXCL10 elisa kit

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CATALOG #
AAA258384

REACTIVITY
Human

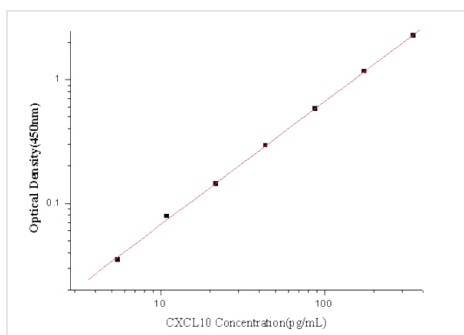
PRODUCT SYNONYMS

IP-10/CXCL10; Human IP-10/CXCL10 ELISA Kit; IP-10/CXCL10 ELISA Kit; Human; chemokine (C-X-C motif) ligand 10; C7 ELISA Kit; crg-2 ELISA Kit; gIP-10 ELISA Kit; IFI10 ELISA Kit; INP10 ELISA Kit; IP-10 ELISA Kit; mob-1 ELISA Kit; SCYB10 ELISA Kit; IP-10/CXCL10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay recognizes both recombinant and natural Human CXCL10. The factors listed below were prepared at 50 ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.
Assay Type	Quantitative Sandwich
Samples	Serum
Sensitivity	< 2.58 pg/mL
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in five separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IP-10/CXCL10 elisa kit	Background: (C-X-C motif) ligand (CXCL)10 (CXCL10) belongs to the ELR(-) CXC subfamily chemokine. CXCL10/IP-10 exerts its function through binding to chemokine (C-X-C motif) receptor 3 (CXCR3), a seven trans-membrane receptor coupled to G proteins. CXCL10/IP-10 and its receptor, CXCR3, appear to contribute to the pathogenesis of many autoimmune diseases, organ specific (such as type 1 diabetes, autoimmune thyroiditis, Graves' disease and ophthalmopathy), or systemic (such as rheumatoid arthritis, psoriatic arthritis, systemic lupus erythematosus, mixed cryoglobulinemia, Sjögren syndrome, or systemic sclerosis). CXCL10/IP-10 is secreted by several cell types including endothelial cells, fibroblasts, keratinocytes, thyrocytes, preadipocytes, etc. Determination of high level of CXCL10/IP-10 in peripheral fluids is therefore a marker of host immune response. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for Human IP-10/CXCL10 has been pre-coated onto well plate strips. Standards and samples are added to the wells and Human IP-10/CXCL10 present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-Human IP-10/CXCL10 antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of Human IP-10/CXCL10 bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: For the quantitative determination of Human IP-10/CXCL10 concentration in serum.
References	O'Donovan N, et al. (1999) Physical mapping of the CXC chemokine locus on human chromosome 4. Cytogenet. Cell Genet. 84(1-2):39-42. Swaminathan GJ, et al. (2003) Crystal structures of oligomeric forms of the IP-10/CXCL10 chemokine. Structure. 11(5):521-32. Booth V, et al. (2002) The CXCR3 binding chemokine IP-10/CXCL10: structure and receptor interactions. Biochemistry. 41(33):10418-25.

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/human-elisa-kits/ip-10-cxcl10/258384>