

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

Human CXCL10/IP-10 Quick ELISA Kit

CATALOG #
AAA125871

REACTIVITY
Human

PRODUCT SYNONYMS

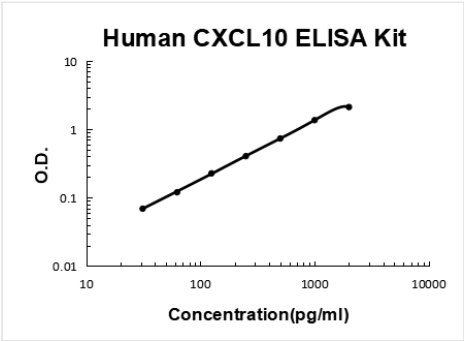
CXCL10/IP-10; Human CXCL10/IP-10 Quick ELISA Kit; CXCL10/IP-10/CRG-2|C7; chemokine (C-X-C motif) ligand 10; CRG2; CRG-2; CXCL10; gIP-10; IFI10; INP10; IP-10; mob-1; SCYB10; CXCL10 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CXCL10
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, serum, plasma (heparin, EDTA), saliva and urine
Detection Range	31.2pg/ml-2,000pg/ml
Sensitivity	<1pg/ml
Capture/Detection Antibodies	Capture antibody- polyclonal antibody from goat Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.025 0.094 0.145 0.252 0.430 0.759 1.388 2.144
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 66 245 894 Standard deviation 3.63 18.62 48.28 CV(%) 5.5% 7.6% 5.4%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 69 236 874 Standard deviation 4.55 20.77 44.57 CV(%) 6.6% 8.8% 5.1%
Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 66 55 61 58 60 3.54 5.9% Sample 2: 245 263 269 254 258 7.22 2.8% Sample 3: 894 935 842 971 911 49.17 5.4% *number of samples for each test n=16.
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: E Coli; Immunogen sequence: V22-P98
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Human CXCL10/IP-10 with <1pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.

Principle	Human CXCL10 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human CXCL10 in cell culture supernatants, serum, plasma (heparin, EDTA), saliva and urine. It uses our proprietary Quick ELISA technology. Quick ELISA technology employs capture antibodies conjugated to an affinity tag that is recognized by the polyclonal antibody used to coat our Quick ELISA plates. This approach to sandwich ELISA allows the formation of the antibody-analyte sandwich complex in a single step, significantly reducing assay time. The kit contains recombinant Human CXCL10 with immunogen: Expression system for standard: E Coli; Immunogen sequence: V22-P98. To measure Human CXCL10, add standards and samples to the wells, then add antibody cocktail. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human CXCL10 in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CXCL10 in the sample.
Assay Procedure Step 1	2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml
TMB Incubation Time	15
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



Application Data

ADDITIONAL INFORMATION

Related Product Information for CXCL10 elisa kit	Chemokine(C-X-C motif) ligand 10(CXCL10) or IP-10 is a small cytokine belonging to the CXC chemokine family that is also known as 10 kDa interferon-gamma-induced protein(gamma-IP10 or IP-10). CXCL10 is secreted by several cell types in response to IFN-gamma. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 has been attributed to several roles, such as chemoattraction for monocytes/macrophages, T cells, NK cells, and dendritic cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. It is a potent inhibitor of angiogenesis in vivo. The gene for CXCL10 is located on human chromosome 4 in a cluster among several other CXC chemokines. It is a RAS target gene and is overexpressed in the majority of colorectal cancers. This chemokine elicits its effects by binding to the cell surface chemokine receptor CXCR3.
Product Categories/Family for CXCL10 elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	149999382
NCBI GeneID	3627
NCBI Accession #	NP_001556.2
NCBI GenBank Nucleotide #	NM_001565.3

UniProt Accession #	P02778; Q96QJ5
Molecular Weight	10,881 Da
NCBI Official Full Name	C-X-C motif chemokine 10
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 10
NCBI Official Symbol	CXCL10
NCBI Official Synonym Symbols	C7; IFI10; INP10; IP-10; crg-2; mob-1; SCYB10; gIP-10
NCBI Protein Information	C-X-C motif chemokine 10; gamma IP10; gamma-IP10; small-inducible cytokine B10; interferon-inducible cytokine IP-10; 10 kDa interferon gamma-induced protein; protein 10 from interferon (gamma)-induced cell line; small inducible cytokine subfamily B (Cys-X
UniProt Protein Name	C-X-C motif chemokine 10
UniProt Gene Name	CXCL10
UniProt Synonym Gene Names	INP10; SCYB10; Gamma-IP10; IP-10
UniProt Entry Name	CXL10_HUMAN

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/cxcl10-ip-10/125871>