Chemokine Interferon-Inducible Protein 4 (IP-4) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Chemokine Interferon-Inducible Protein 4 (IP-4), ELISA Kit
Full Product Name	Cat Chemokine Interferon-Inducible Protein 4 ELISA Kit
Product Gene Name	IP-4 elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	10,881 Da
OMIM	147310
3D Structure	ModBase 3D Structure for P02778
Related Product Information for IP-4 elisa kit	MBS048852 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Chemokine Interferon-Inducible Protein 4 (IP-4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IP-4. The ELISA analytical biochemical technique of the MBS048852 kit is based on IP-4 antibody-IP-4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IP-4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IP-4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of IP-4 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IP-4. It may not necessarily be applicable to this product.

NCBI GI #	149999382
NCBI GeneID	3627
NCBI Accession #	NP_001556.2
UniProt Primary Accession #	P02778
UniProt Secondary Accession #	Q96QJ5
UniProt Related Accession #	P02778
GenBank Nucleotide #	NM_001565.3
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
UniProt Protein Name	C-X-C motif chemokine 10
UniProt Synonym Protein Names	10 kDa interferon gamma-induced protein; Gamma-IP10; IP-10; Small-inducible cytokine B10
UniProt Gene Name	CXCL10

UniProt Synonym Gene Names	INP10; SCYB10; Gamma-IP10; IP-10
UniProt Entry Name	CXL10_HUMAN
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-Cys), member 10
NCBI Summary for IP-4	This gene encodes a chemokine of the CXC subfamily and ligand for the receptor CXCR3. Binding of this protein to CXCR3 results in pleiotropic effects, including stimulation of monocytes, natural killer and T-cell migration, and modulation of adhesion molecule expression. [provided by RefSeq, Jul 2008]
UniProt Comments for IP-4	CXCL10: Chemotactic for monocytes and T-lymphocytes. Binds to CXCR3. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Chemokine; Secreted, signal peptide; Secreted; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4q21 Cellular Component: extracellular space; extracellular region; external side of plasma membrane Molecular Function: heparin binding; protein binding; CXCR3 chemokine receptor binding; chemokine activity; cAMP-dependent protein kinase regulator activity; receptor binding Biological Process: muscle development; blood circulation; protein secretion; positive regulation of leukocyte chemotaxis; positive regulation of cAMP metabolic process; chemotaxis; signal transduction; regulation of cell proliferation; G-protein coupled receptor protein signaling pathway; negative regulation of angiogenesis; cell surface receptor linked signal transduction; response to vitamin D; cell-cell signaling; positive regulation of cell proliferation; response to gamma radiation; immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of release of sequestered calcium ion into cytosol; response to cold; regulation of protein kinase activity; inflammatory response; negative regulation of myoblast differentiation; defense response to virus
Research Articles on IP-4	**1.** Increased CXCL9 serum levels in hepatitis C-related mixed cryoglobulinemia, with autoimmune thyroiditis, associated with high levels of CXCL10.
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