antibodies - online.com







CCL20 ELISA Kit

1	Image



Publications



Overview

Quantity:	96 tests
Target:	CCL20
Binding Specificity:	AA 27-96
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human MIP-3 alpha
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: A27-M96
Specificity:	Expression system for standard: E.coli Immunogen sequence: A27-M96
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Pathways:

Sensitivity:	<1pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	CCL20
Alternative Name:	CCL20 (CCL20 Products)
Background:	Protein Function: Chemotactic factor that attracts lymphocytes and, slightly, neutrophils, but
	not monocytes. Inhibits proliferation of myeloid progenitors in colony formation assays. May be
	involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes
	and dendritic cells towards epithelial cells. C-terminal processed forms have been shown to be
	equally chemotactically active for leukocytes. Possesses antibacterial activity E.coli ATCC
	25922 and S.aureus ATCC 29213
	Background: Macrophage Inflammatory Protein 3alpha(MIP3alpha), also called Chemokine, cc
	motif, ligand 20(CCL20). The MIP-3alpha/CCL20 gene was cloned and sequenced, revealing a
	four exon, three intron structure, and was localized by FISH analysis to 2q35-q36. MIP3alpha is
	predominantly expressed in lymph nodes, appendix, PBL, fetal liver, fetal lung and several cell
	lines. MIP3alpha/CCL20 and its receptor CCR6 are markedly up-regulated in psoriasis, and they
	may play a role in the recruitment of T cells to lesional psoriatic skin. And Alanine MIP-3alpha
	and Serine MIP-3alpha, the two forms of MIP3alpha, that differ by one amino acid at the
	predicted signal peptide cleavage site. Both of them were chemically synthesized and tested for
	biological activity. And both flu antigen plus IL-2-activated CD4(+) and CD8(+) T lymphoblasts
	and cord blood-derived dendritic cells responded to Ser and Ala MIP-3alpha.
	Synonyms: C-C motif chemokine 20,Beta-chemokine exodus-1,CC chemokine LARC,Liver and
	activation-regulated chemokine,Macrophage inflammatory protein 3 alpha,MIP-3-alpha,Small-
	inducible cytokine A20,CCL20(1-67),CCL20(1-64),CCL20(2-70),CCL20,LARC, MIP3A, SCYA20,
	Full Gene Name: C-C motif chemokine 20
	Cellular Localisation: Secreted.
Gene ID:	6364
UniProt:	P78556
D-#	

The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the intercrine beta (chemokine CC) family. Tissue Specificity: Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels seen in thymus, prostate, testis, small intestine and colon.
Plate:	Pre-coated
Protocol:	human MIP-3 alpha ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for MIP-3 alpha has been precoated onto 96-well plates. Standards(E.coli, A27-M96) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for MIP-3 alpha is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human MIP-3 alpha amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL human MIP-3 alpha standard solutions into the precoated 96-well plate Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human MIP-3 alpha standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(pg/ml): 94, Standard deviation: 4.42, CV(%): 4.7 Sample 2: n=16, Mean(pg/ml): 325, Standard deviation: 17.55, CV(%): 5.4 Sample 3: n=16, Mean(pg/ml): 592, Standard deviation: 35.52, CV(%): 6, Sample 1: n=24, Mean(pg/ml): 125, Standard deviation: 6.75, CV(%): 5.4 Sample 2: n=24, Mean(pg/ml): 354, Standard deviation: 24.43, CV(%): 6.9 Sample 3: n=24, Mean(pg/ml): 617, Standard deviation: 43.81, CV(%): 7.1
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.

Handling

Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Publications

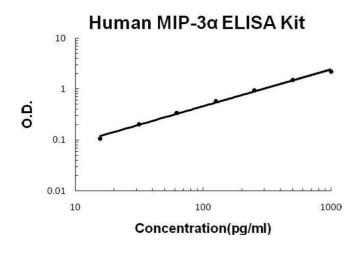
Product cited in:

Sai, Yao, Shen, Zheng, Sun, Wu, Wang, Yao: "Dynamic expression of hepatic GP73 mRNA and protein and circulating GP73 during hepatocytes malignant transformation." in: **Hepatobiliary & pancreatic diseases international: HBPD INT**, Vol. 19, Issue 5, pp. 449-454, (2020) (PubMed).

Dong, Chen, Li, Li, Wen, Lin, Ma, Wei, Chen, Ruan, Lin, Wang, Wu, Wu: "Serum Golgi protein 73 is a prognostic rather than diagnostic marker in hepatocellular carcinoma." in: **Oncology letters**, Vol. 14, Issue 5, pp. 6277-6284, (2017) (PubMed).

Kosanam, Prassas, Chrystoja, Soleas, Chan, Dimitromanolakis, Blasutig, Rückert, Gruetzmann, Pilarsky, Maekawa, Brand, Diamandis: "Laminin, gamma 2 (LAMC2): a promising new putative pancreatic cancer biomarker identified by proteomic analysis of pancreatic adenocarcinoma tissues." in: **Molecular & cellular proteomics: MCP**, Vol. 12, Issue 10, pp. 2820-32, (2013) (PubMed).

Images



ELISA

Image 1. Human MIP-3 alpha/CCL20 PicoKine ELISA Kit standard curve