

Anti-Human CCL23 Antibody [PSH09-05] - BSA and Azide free (Capture)

HA723061



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH09-05

Description: Shows chemotactic activity for monocytes, resting T-lymphocytes, and neutrophils, but not for activated lymphocytes. Inhibits proliferation of myeloid progenitor cells in colony formation assays. This protein can bind heparin. Binds CCR1. CCL23(19-99), CCL23(22-99), CCL23(27-99), CCL23(30-99) are more potent chemoattractants than CCL23. This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, displays chemotactic activity on resting T lymphocytes and monocytes, lower activity on neutrophils and no activity on activated T lymphocytes. The protein is also a strong suppressor of colony formation by a multipotential hematopoietic progenitor cell line. In addition, the product of this gene is a potent agonist of the chemokine (C-C motif) receptor 1. Alternative splicing results in multiple transcript variants that encode different isoforms.

Immunogen: Recombinant protein within Human CCL23 aa 22-120.

Positive control: Recombinant Human CCL23 protein (HA210894).

Subcellular location: Secreted.

Database links: SwissProt: P55773 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH09-07] to Human CCL23 antibody (Detector) (HA723063) and Recombinant Human CCL23 protein (HA210894) as the standard. The reference range value is 8-2,000pg/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

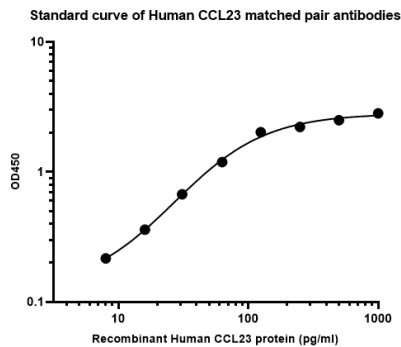


Fig1: Sandwich ELISA analysis of Human CCL23 matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723061) diluted in carbonate/bicarbonate buffer, at a concentration of 5 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Human CCL23 (HA210894) starting from 1,000 pg/ml to 0 pg/ml and detect antibody (HA723063, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

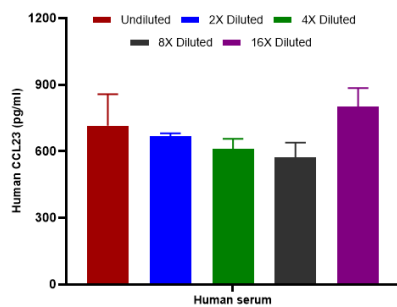


Fig2: Interpolated concentrations of native CCL23 in human serum samples.

The concentrations of CCL23 were measured in duplicates, interpolated from the CCL23 standard curve and corrected for sample dilution. Undiluted samples are human serum 100%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2). The mean CCL23 concentration was determined to be 673.4 pg/ml in human serum.

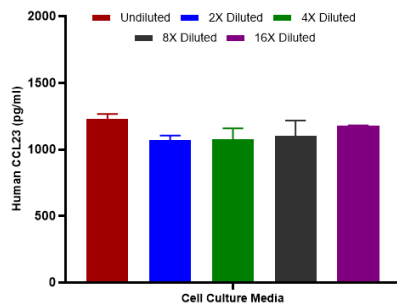


Fig3: Interpolated concentrations of spiked CCL23 in human cell culture media samples.

The concentrations of CCL23 were measured in duplicates, interpolated from the CCL23 standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2).

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Berahovich R.D., Miao Z., Wang Y., Premack B., Howard M.C., Schall T.J. Proteolytic activation of alternative CCR1 ligands in inflammation. *J. Immunol.* 174:7341-7351 (2005)

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