

# Biotin Conjugated Anti-Human MCP4/CCL13 Antibody [PSH15-70] - Detector

## HA725200B



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Det), ELISA
<b>Clone number:</b>	PSH15-70

**Description:** Chemokine (C-C motif) ligand 13 (CCL13) is a small cytokine belonging to the CC chemokine family. Its gene is located on human chromosome 17 within a large cluster of other CC chemokines. CCL13 induces chemotaxis in monocytes, eosinophils, T lymphocytes, and basophils by binding cell surface G-protein linked chemokine receptors such as CCR2, CCR3 and CCR5. Activity of this chemokine has been implicated in allergic reactions such as asthma. CCL13 can be induced by the inflammatory cytokines interleukin-1 and TNF- $\alpha$ . This antimicrobial gene is one of several Cys-Cys (CC) cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene displays chemotactic activity for monocytes, lymphocytes, basophils and eosinophils, but not neutrophils. This chemokine plays a role in accumulation of leukocytes during inflammation. It may also be involved in the recruitment of monocytes into the arterial wall during atherosclerosis.

**Conjugate:** Biotin-conjugated

**Immunogen:** Recombinant protein within Human MCP4/CCL13 aa 17-98 (HA211153).

**Positive control:** Recombinant Human MCP4/CCL13 protein (HA211153).

**Subcellular location:** Secreted.

**Database links:** SwissProt: Q99616 Human

**Recommended Dilutions:**

**ELISA(Det)** Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH15-69] to Human MCP4/CCL13 antibody (Capture) (HA725199) and Recombinant Human MCP4/CCL13 protein (HA211153) as the standard. The reference range value is 2.0-1,000 pg/mL.

**ELISA** Use at an assay dependent concentration.

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

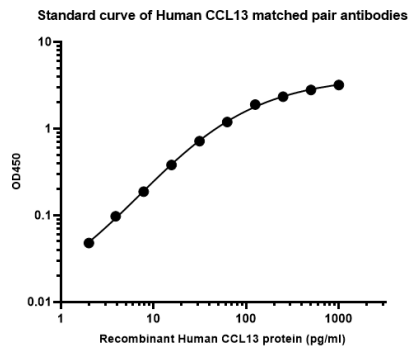
华安生物  
HUABIO  
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

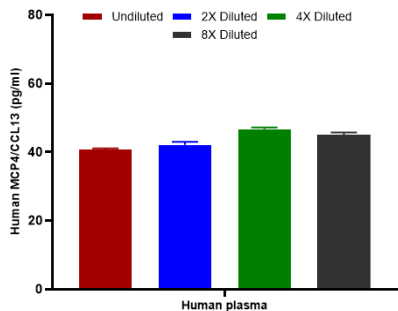
**Fig1:** Sandwich ELISA analysis of Human MCP4/CCL13 matched pair antibodies

Capture: HA725199, Human MCP4/CCL13 Rabbit mAb [PSH15-69]  
Detector: HA725200, Human MCP4/CCL13 Rabbit mAb [PSH15-70]



Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody (HA725199) diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human MCP4/CCL13 protein (HA211153) starting from 1,000 pg/ml to 2.0 pg/ml and detect antibody (HA725200, Biotin, 0.2  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50  $\mu$ 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 MCP4/CCL13 in human plasma samples.



Capture: HA725199, Human MCP4/CCL13 Rabbit mAb [PSH15-69]  
Detector: HA725200, Human MCP4/CCL13 Rabbit mAb [PSH15-70]

The concentrations of MCP4/CCL13 were measured in duplicates, interpolated from the MCP4/CCL13 standard curve and corrected for sample dilution. Undiluted samples are 50% human plasma . The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean MCP4/CCL13 concentration was determined to be 45 pg/ml in human plasma.

---

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

---

### Background References

1. Wang D et al. CCL13 is upregulated in alopecia areata lesions and is correlated with disease severity. Exp Dermatol. 2021 May
2. Jha A et al. Increased nasal mucosal interferon and CCL13 response to a TLR7/8 agonist in asthma and allergic rhinitis. J Allergy Clin Immunol. 2021 Feb

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

 华安生物  
HUAABIO  
www.huabio.cn

Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation