Anti-Human CCL17 / TARC Antibody [PSH13-34] - BSA and Azide free (Detector)

HA723514

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH13-34

Description: Chemokine, which displays chemotactic activity for T lymphocytes, preferentially Th2 cells, but not monocytes or granulocytes. Therefore plays an important role in a wide range of inflammatory and immunological processes. In the brain, required to maintain the typical, highly branched morphology of hippocampal microglia under homeostatic conditions. May be important for the appropriate adaptation of microglial morphology and synaptic plasticity to acute lipopolysaccharide (LPS)-induced neuroinflammation. Plays a role in wound healing, mainly by inducing fibroblast migration into the wound.

Immunogen: Recombinant protein within Human CCL17 aa 24-94 (HA210895).

Positive control: Recombinant Human CCL17 / TARC protein (HA210895).

Subcellular location: Secreted.

Database links: SwissProt: Q92583 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH13-33] to Human CCL17 / TARC antibody (Capture) (HA723513) and recombinant Human CCL17 / TARC protein (HA210895) as the standard. The reference range value is 31.3-2,000 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

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

Purity: Protein A affinity purified.

Images

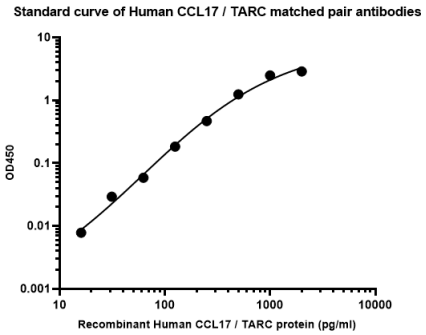

Fig1: Sandwich ELISA analysis of Human CCL17 / TARC matched pair antibodies

Capture: HA723513, Human CCL17 / TARC Rabbit mAb [PSH13-33]
Detector: HA723514, Human CCL17 / TARC Rabbit mAb [PSH13-34]

Elisa assay was performed by coating wells of a 96-well plate with 100 µl per well of capture antibody (HA723513) diluted in carbonate/bicarbonate buffer, at a concentration of 5 µg/mL overnight at 4℃. Wells of the plate were washed, blocked with 150 µl 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human CCL17 / TARC protein (HA210895) starting from 2,000 pg/ml to 0 pg/ml and detect antibody (HA723514, Biotin, 0.2 µg/ml) for 1 hour at 30℃ with shaking. Then the plate was washed and incubated with 100 µl per well of SA-HRP for 0.5 hour at 30℃ 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.

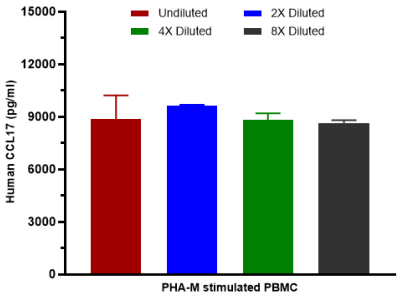

Fig2: Interpolated concentrations of native CCL17 in human PBMC cell culture supernatant.

Capture: HA723513, Human CCL17 / TARC Rabbit mAb [PSH13-33]
Detector: HA723514, Human CCL17 / TARC Rabbit mAb [PSH13-34]

PBMC cells were stimulated with 10 µg/ml PHA-M and incubated for 5 days. The concentrations of CCL17 measured in duplicate and interpolated from the CCL17 standard curve and corrected for sample dilution. Undiluted samples are as follows: stimulated 25%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2). The mean CCL17 concentration was determined to be 8,995 pg/ml in PHA-M stimulated PBMC cell culture supernatant.

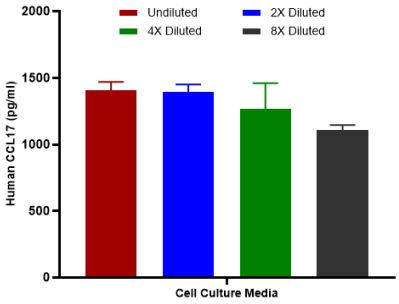

Fig3: Interpolated concentrations of spiked CCL17 in human cell culture media samples.

Capture: HA723513, Human CCL17 / TARC Rabbit mAb [PSH13-33]
Detector: HA723514, Human CCL17 / TARC Rabbit mAb [PSH13-34]

The concentrations of CCL17 were measured in duplicates, interpolated from the CCL17 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 +/- SD, n=2).

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

Background References

1. Feng G et al. CCL17 Aggravates Myocardial Injury by Suppressing Recruitment of Regulatory T Cells. Circulation. 2022 Mar
2. Lupancu TJ et al. CCL17/TARC in autoimmunity and inflammation-not just a T-cell chemokine. Immunol Cell Biol. 2023 Aug