

Biotin Conjugated Anti-Rat CCL2 / MCP-1 Antibody [PSH19-85] - Detector

HA724109B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Rat
Applications:	ELISA(Det), ELISA
Clone number:	PSH19-85

Description: The chemokine (C-C motif) ligand 2 (CCL2) is also referred to as monocyte chemoattractant protein 1 (MCP1) and small inducible cytokine A2. CCL2 is a small cytokine that belongs to the CC chemokine family. CCL2 tightly regulates cellular mechanics and thereby recruits monocytes, memory T cells, and dendritic cells to the sites of inflammation produced by either tissue injury or infection.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Rat CCL2 / MCP-1 aa 24-148 (HA211114).

Positive control: Recombinant Rat CCL2 / MCP-1 protein (HA211114).

Subcellular location: Secreted.

Database links: SwissProt: P14844 Rat

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH19-84] to Rat CCL2 / MCP-1 antibody (Capture) (HA724108) and Recombinant Rat CCL2 / MCP-1 protein (HA211114) as the standard. The reference range value is 15.6-2,000 pg/mL.

ELISA Use at an assay dependent concentration.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.05% Proclean 300.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

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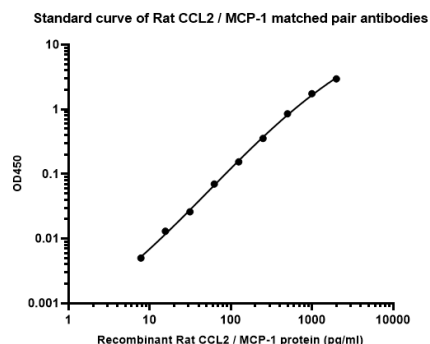
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

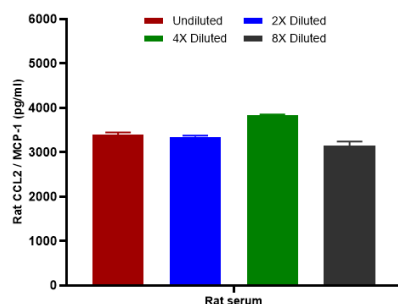
Fig1: Sandwich ELISA analysis of Rat CCL2 matched pair antibodies

Capture: HA724108, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-84]

Detector: HA724109, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-85]



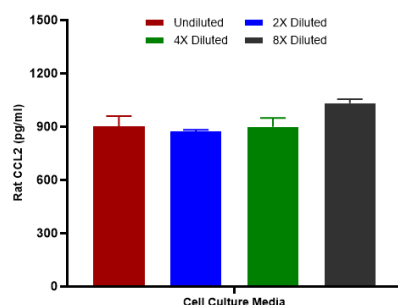
Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA724108) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/mL overnight at 4°C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Rat CCL2 / MCP-1 protein (HA211114) starting from 2,000 pg/ml to 0 pg/ml and detect antibody (HA724109, Biotin, 0.05 μ g/ml) for 1 hour at 30°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°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 CCL2 in rat serum samples.

Capture: HA724108, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-84]

Detector: HA724109, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-85]

The concentrations of CCL2 were measured in duplicates, interpolated from the CCL2 standard curve and corrected for sample dilution. Undiluted samples are rat serum 12.5%. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2). The mean CCL2 concentration was determined to be 3,430 pg/ml in rat serum.

Fig3: Interpolated concentrations of spiked CCL2 in rat cell culture media samples.

Capture: HA724108, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-84]

Detector: HA724109, Rat CCL2 / MCP-1 Rabbit mAb [PSH19-85]

The concentrations of CCL2 were measured in duplicates, interpolated from the CCL2 standard curves and corrected for sample dilution. Diluted samples are as follows: 50% cell culture media without FBS. 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. Zhang H et al. Role of the CCL2-CCR2 axis in cardiovascular disease: Pathogenesis and clinical implications. Front Immunol. 2022 Aug
2. Ryu S et al. Peripheral CCL2-CCR2 signalling contributes to chronic headache-related sensitization. Brain. 2023 Oct

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