

MCP-4 Monoclonal Antibody (3G4)

Product Details

Size	200 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	3G4
Conjugate	Unconjugated
Immunogen	Recombinant CCL13 protein
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2536661

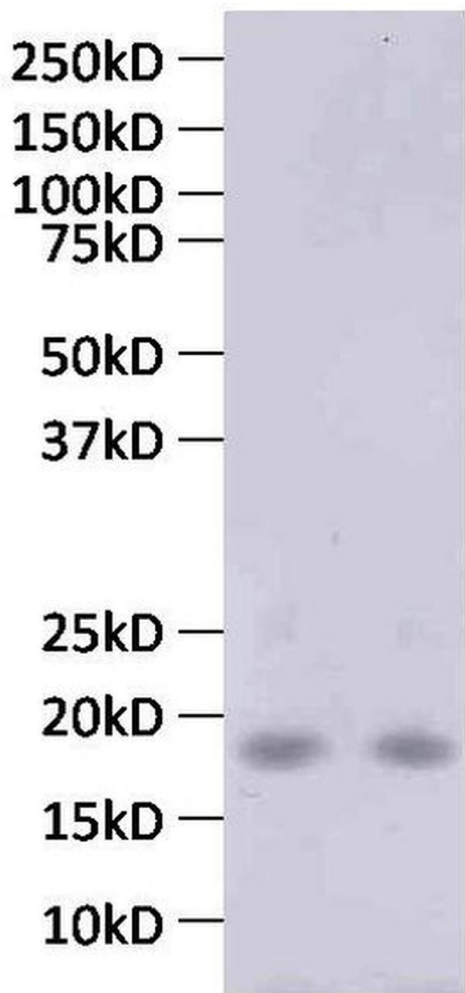
Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	-
ELISA (ELISA)	2 µg/mL	-

Product Specific Information

There is one major form (long chain) and two minor forms (short chain and medium chain) of MCP-4 produced by differential signal peptide cleavage. Thus, the resulting MW of secreted MCP-4 ranges between ~8-9kD. Western blot analysis of recombinant MCP-4/CCL13 protein detects an ~17kD band, likely corresponding to a dimer of MCP-4.

The M809 MCP-4 antibody (clone 3G4) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M810 (biotinylated conjugate of clone 8C12). The M809 MCP-4 antibody (biotinylated conjugate of clone 3G4) has also been used successfully in a sandwich ELISA as a detection antibody when paired with M810 (clone 8C12) as the coating antibody.

Product Images For MCP-4 Monoclonal Antibody (3G4)

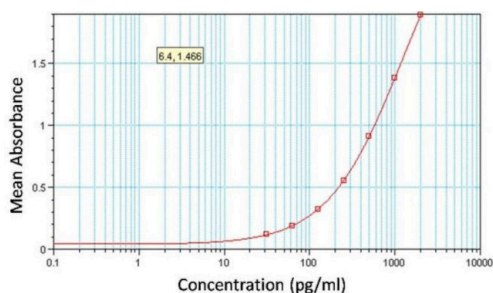


MCP-4 Antibody (M809) in WB

Western blot analysis of human Monocyte Chemotactic Protein-4 (MCP-4) /CCL13 was performed by loading 2.5 µg of recombinant human MCP-4 protein per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with StartingBlock (TBS) Blocking Buffer (Product # 37542) for at least 1 hour. The membrane was probed with an MCP4 monoclonal antibody (Product # M809) at a concentration of 2 µg/mL overnight at 4°C on a rocking platform, washed in TBS-0.1%Tween-20, and probed with a goat anti-mouse IgG-HRP secondary antibody (Product # 31430) at a dilution of 1:5000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).

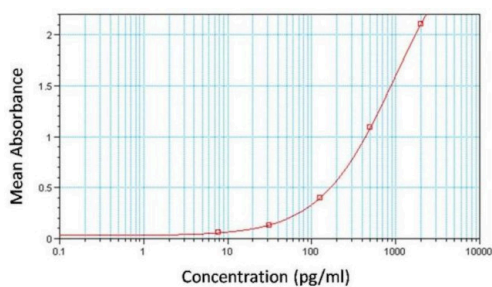
MCP-4 Antibody (M809) in ELISA

Sandwich ELISA analysis of an anti-human MCP-4 monoclonal antibody (Product # M810) was performed by loading 100 µL per well of antibody (Product # M810) at a concentration of 2 µg/mL overnight at room temperature. The plate was washed 3 times with ELISA Wash Buffer (Product # N503), and 100 µL of recombinant human MCP-4/CCL13 was added to wells in duplicate at 2000, 1000, 500, 250, 125, 62.5, 31.25, and 0pg/mL concentrations and the samples were incubated for 2 hours at room temperature. The plate was washed, then incubated with 100 µL per well of a biotinylated MCP-4 monoclonal antibody (Product # M809, biotinylated using EZ-Link Sulfo-NHS-LC-Biotinylation Kit (Product # 21435) at a concentration of 0.13 µg/mL for 1 hour at room temperature, followed by 100 µL per well of Streptavidin-HRP (Product # N504) at a dilution of 1:16,000 for 30 minutes at room temperature. Detection was performed by adding 100 µL of Ultra TMB substrate (Product # 34028) per well and incubating for 30 minutes at room temperature in the dark. The plate was then stopped with 100 µL per well of 0.16M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.



MCP-4 Antibody (M809) in ELISA

Sandwich ELISA analysis of an anti-human MCP-4 monoclonal antibody (Product # M809) was performed by loading 100 μ L per well of antibody (Product # M809) at a concentration of 2 μ g/mL overnight at room temperature. The plate was washed 3 times with ELISA Wash Buffer (Product # N503), and 100 μ L of recombinant human MCP-4/CCL13 was added to wells in duplicate at 2000, 500, 125, 31.25, 7.813, and 0pg/mL concentrations and the samples were incubated for 2 hours at room temperature. The plate was washed, then incubated with 100 μ L per well of a biotinylated MCP-4 monoclonal antibody (Product # M810, biotinylated using EZ-Link Sulfo-NHS-LC-Biotinylation Kit (Product # 21435) at a concentration of 0.13 μ g/mL for 1 hour at room temperature, followed by 100 μ L per well of Streptavidin-HRP (Product # N504) at a dilution of 1:16,000 for 30 minutes at room temperature. Detection was performed by adding 100 μ L of Ultra TMB substrate (Product # 34028) per well and incubating for 30 minutes at room temperature in the dark. The plate was then stopped with 100 μ L per well of 0.16 M sulfuric acid. Absorbances were read on a spectrophotometer at 450-550 nm.



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