Anti-CCL3 / MIP-1 alpha Antibody

R1510-10

Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 10 kDa

Description: Chemokine (C-C motif) ligand 3 (CCL3) also known as macrophage inflammatory protein 1-alpha (MIP-1-alpha) is a protein that in humans is encoded by the CCL3 gene. CCL3 is a cytokine belonging to the CC chemokine family that is involved in the acute inflammatory state in the recruitment and activation of polymorphonuclear leukocytes through binding to the receptors CCR1, CCR4 and CCR5. CCL3 produces a monophasic fever of rapid onset whose magnitude is equal to or greater than that of fevers produced with either recombinant human tumor necrosis factor or recombinant human interleukin-1. However, in contrast to these two endogenous pyrogens, the fever induced by MIP-1 is not inhibited by the cyclooxygenase inhibitor ibuprofen and CCL3 may participate in the febrile response that is not mediated through prostaglandin synthesis and clinically cannot be ablated by cyclooxygenase.

Immunogen: Recombinant protein within human CCL3 aa 1-92.

Positive control: NK-92 cell lysate, THP-1 treated with 100nM TPA overnight then add 100ng/mL LPS for 7 hours then add 1μg/mL BFA for 3 hours cell lysate.

Subcellular location: Secreted.

Database links: SwissProt: P10147 Human

Recommended Dilutions:

WB	1:1,000

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

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

Purity: Immunogen affinity purified.

Images

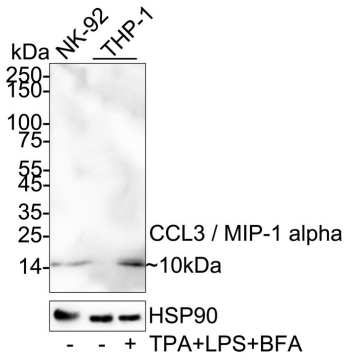

Fig1: Western blot analysis of CCL3 / MIP-1 alpha on different lysates with Rabbit anti-CCL3 / MIP-1 alpha antibody (R1510-10) at 1/1,000 dilution.

Lane 1: NK-92 cell lysate
Lane 2: THP-1 cell lysate
Lane 3: THP-1 treated with 100nM TPA overnight then add 100ng/mL LPS for 7 hours then add 1μg/mL BFA for 3 hours cell lysate

Lysates/proteins at 20 μg/Lane.

Predicted band size: 10 kDa
Observed band size: 10 kDa

Exposure time: 1 minute; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (R1510-10) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

Background References

1. Sheng D et al. Ccl3 enhances docetaxel chemosensitivity in breast cancer by triggering proinflammatory macrophage polarization. J Immunother Cancer. 2022 May
2. Yang YL et al. The Role of CCL3 in the Pathogenesis of Rheumatoid Arthritis. Rheumatol Ther. 2023 Aug