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Anti-CCL7 Antibody

Catalog # AP60237

Product Information

Application	WB, IF/IC
Primary Accession	P80098
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	11200

Additional Information

Gene ID	6354
Other Names	MCP3; SCYA6; SCYA7; C-C motif chemokine 7; Monocyte chemoattractant protein 3; Monocyte chemotactic protein 3; MCP-3; NC28; Small-inducible cytokine A7
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CCL7. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

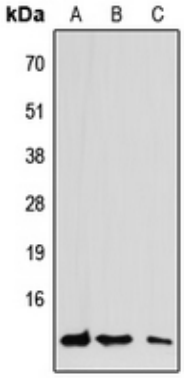
Protein Information

Name	CCL7
Synonyms	MCP3, SCYA6, SCYA7
Function	Chemotactic factor that plays an important role in immune regulation. Attracts monocytes, eosinophils, basophils, and T-cells to sites of inflammation or infection. Upon binding to various chemokine receptors including CCR1, CCR2, CCR3, and CCR5, facilitates immune cell migration by guiding them to infected tissues (PubMed:9364936, PubMed:10477718). Interacts with CCR2 to facilitate the release of monocytes from the bone marrow into the bloodstream, maintaining monocyte homeostasis. In turn, monocytes recruited to inflamed or injured tissues can differentiate into macrophages or dendritic cells, which are essential for immune defense and tissue repair. Through CCR1, contributes to macrophage polarization via NF-kappa-B activation which leads to the release of inflammatory factors (PubMed:38417634). In the trigeminal ganglion neurons, activates ERK via

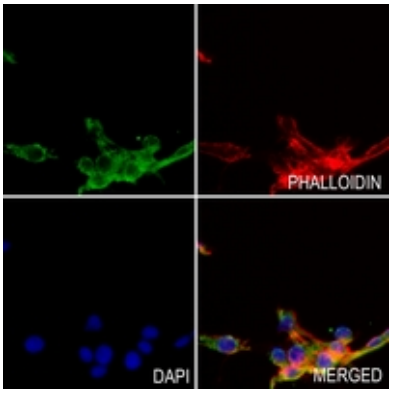
CCR2 and CCR3 to enhance neuronal excitability, which contributes to the maintenance of trigeminal neuropathic pain. Additionally, modulates the early immune response in the skin, preventing pathogen dissemination while maintaining cutaneous immune control.

Cellular Location Secreted.

Images



Western blot analysis of CCL7 expression in H1792 (A), LOVO (B), U2OS (C) whole cell lysates. (Predicted band size: 11 kD; Observed band size: 17 kD)



Immunofluorescent analysis of CCL7 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.