10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-CCL2 Antibody

Catalog # AP95722

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	P13500
Reactivity	Human, Mouse, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	11025

Additional Information

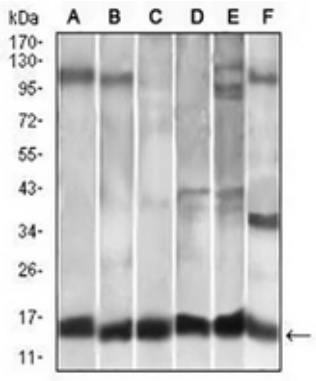
Gene ID	6347
Other Names	MCP1; SCYA2; C-C motif chemokine 2; HC11; Monocyte chemoattractant protein 1; Monocyte chemotactIC, and activating factor; MCAF; Monocyte chemotactIC, protein 1; MCP-1; Monocyte secretory protein JE; Small-inducible cytokine A2
Target/Specificity	Recombinant fusion protein of human CCL2 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, 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

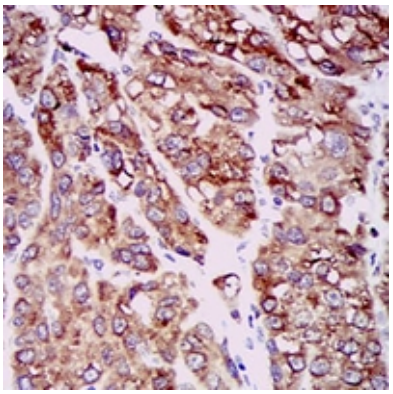
Name	CCL2
Synonyms	MCP1, SCYA2
Function	Acts as a ligand for C-C chemokine receptor CCR2 (PubMed: 10529171, PubMed:10587439, PubMed:9837883). Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions (PubMed:10587439, PubMed:9837883). Exhibits a chemotactic activity for monocytes and basophils but not neutrophils or eosinophils (PubMed:8195247, PubMed:8627182, PubMed:9792674). May be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis (PubMed:8107690).
Cellular Location	Secreted
Tissue Location	Expressed in the seminal plasma, endometrial fluid and follicular fluid (at protein level) (PubMed:23765988). Expressed in monocytes

(PubMed:2513477).

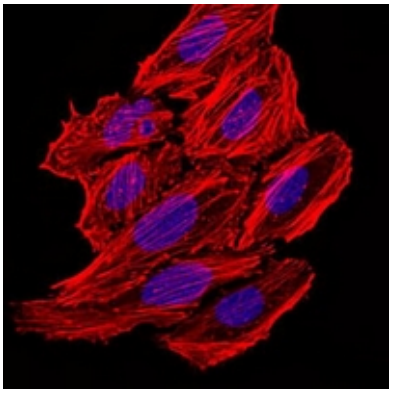
Images



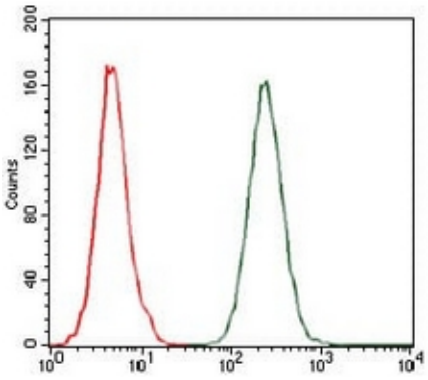
Western blot analysis of CCL2 expression in A549 (A), Hela (B), Raw264.7 (C), L1210 (D), C6 (E), COS7 (F) whole cell lysates. (Predicted band size: 11 kD; Observed band size: 15 kD)



Immunohistochemical analysis of CCL2 staining in human liver cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CCL2 staining in HepG2 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 an 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).



Flow cytometric analysis of A549 cells using Anti-CCL2 Antibody (green) and negative control (red).