

CCL2 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1701a**Specification****CCL2 Antibody - Product Information**

Application	E, WB, IHC, IF, FC
Primary Accession	P13500
Reactivity	Human, Mouse, Monkey
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	11kDa KDa

Description

This gene is one of several cytokine genes clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The protein encoded by this gene is structurally related to the CXC subfamily of cytokines. Members of this subfamily are characterized by two cysteines separated by a single amino acid. This cytokine displays chemotactic activity for monocytes and basophils but not for neutrophils or eosinophils. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4.

Immunogen

Purified recombinant fragment of human CCL2 expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CCL2 Antibody - Additional Information

Gene ID 6347

Other Names

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, CCL2, MCP1, SCYA2

Dilution

E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CCL2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CCL2 Antibody - 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).

CCL2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

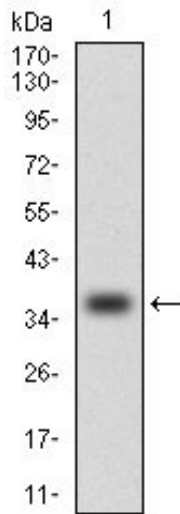
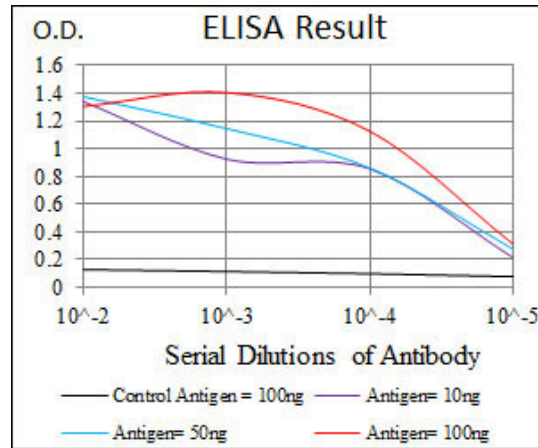


Figure 1: Western blot analysis using CCL2 mAb against human CCL2 (AA: 1-99) recombinant protein. (Expected MW is 36.5 kDa)

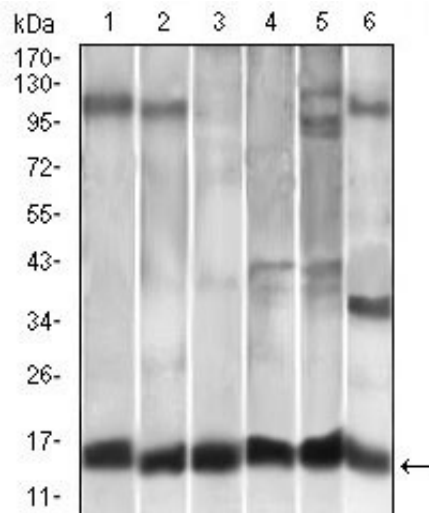


Figure 2: Western blot analysis using CCL2 mouse mAb against A549 (1), HeLa (2), Raw264.7 (3), L1210 (4), C6 (5), and COS-7 (6) cell lysate.

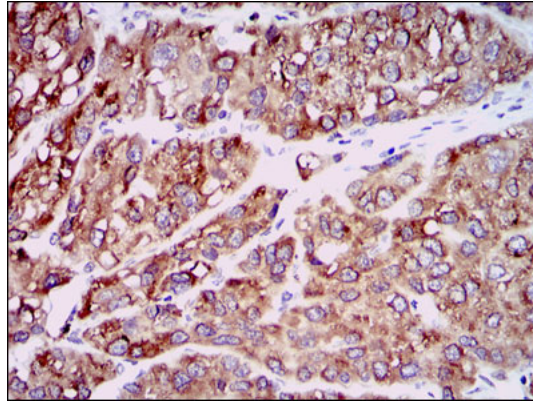


Figure 3: Immunohistochemical analysis of paraffin-embedded liver cancer tissues using CCL2 mouse mAb with DAB staining.

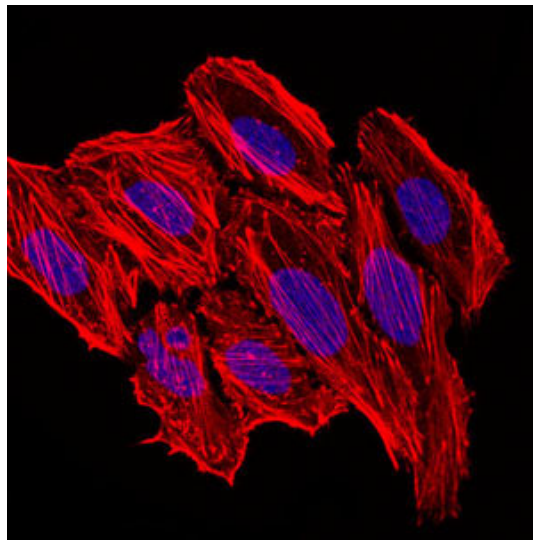


Figure 4: Immunofluorescence analysis of HepG2 cells. Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

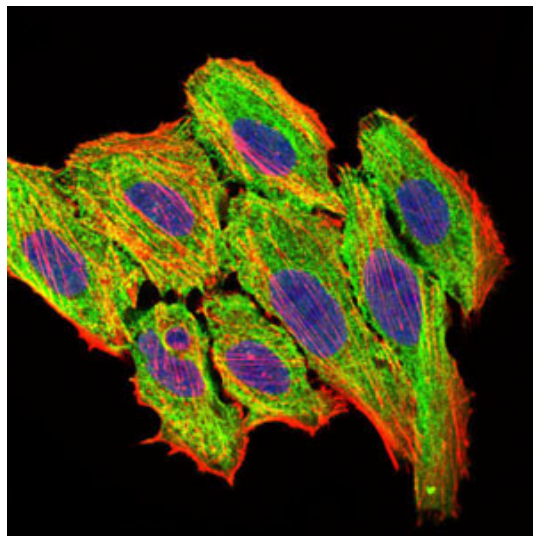


Figure 5: Immunofluorescence analysis of HepG2 cells using CCL2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

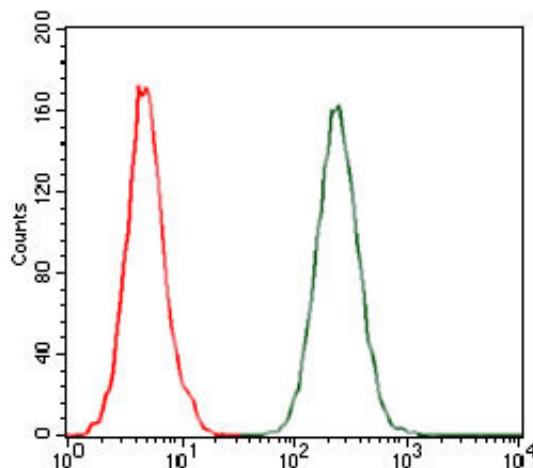


Figure 6: Flow cytometric analysis of A549 cells using CCL2 mouse mAb (green) and negative control (red).

CCL2 Antibody - References

J Cereb Blood Flow Metab. 2010 Mar;30(3):459-73. Prostate. 2010 Mar 1;70(4):433-42.