

CCL23 (C-16): sc-12263

BACKGROUND

Small inducible cytokine A23 precursor (CCL23), or CK- β -8, is a chemokine that binds to the receptor CCR1. It is involved in the immune response and inhibits production of polymorphonuclear leukocytes (PMNs) and monocytes in bone marrow. In addition, CCL23 has a splice variant, CK- β -8-1, and both variants chemoattract lymphocytes, monocytes and neutrophils. CCL23 also promotes angiogenesis and endothelial cell migration via its actions on the CCR1 receptor. Proinflammatory proteases cleave an N-terminal domain of CCL23, improving the potency of its CCR1-mediated signaling up to 1000-fold *in vitro*. N-truncated CCL23 is found in high levels in synovial fluids of rheumatoid arthritis patients, suggesting a role of protease release during an inflammatory response. High levels of CCL23 mRNA expression occur in human fetal bone osteoblasts and chondrocytes, indicating a possible role for CCL23 in the recruitment of osteoclast precursors to the sites of bone reabsorption.

REFERENCES

1. Broxmeyer, H.E., et al. 1999. Effects of CC, CXC, C, and CX3C chemokines on proliferation of myeloid progenitor cells, and insights into SDF-1-induced chemotaxis of progenitors. *Annu. N.Y. Acad. Sci.* 872: 142-162.
2. Nardelli, B., et al. 1999. Dendritic cells and MIP1-1: chemotactic activity and inhibition of endogenous chemokine production by IFN- γ and CD40 ligation. *J. Leukoc. Biol.* 65: 822-828.
3. Nardelli, B., et al. 1999. Characterization of the signal transduction pathway activated in human monocytes and dendritic cells by MIP1-1, a specific ligand for CC chemokine receptor 1. *J. Immunol.* 162: 435-444.
4. Nomiya, H., et al. 1999. Organization of the chemokine gene cluster on human chromosome 17q11.2 containing the genes for CC chemokine MIP1-1, HCC-2, HCC-1, LEC, and RANTES. *J. Interferon Cytokine Res.* 19: 227-234.

CHROMOSOMAL LOCATION

Genetic locus: CCL23 (human) mapping to 17q12.

SOURCE

CCL23 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CCL23 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12263 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

CCL23 (C-16) is recommended for detection of CCL23 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

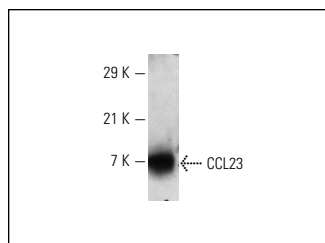
Suitable for use as control antibody for CCL23 siRNA (h): sc-45634, CCL23 shRNA Plasmid (h): sc-45634-SH and CCL23 shRNA (h) Lentiviral Particles: sc-45634-V.

Molecular Weight of CCL23: 15 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CCL23 (C-16): sc-12263. Western blot analysis of human recombinant CCL23.

SELECT PRODUCT CITATIONS

1. Sekizawa, N., et al. 2011. Transcriptome analysis of aldosterone-regulated genes in human vascular endothelial cell lines stably expressing mineralocorticoid receptor. *Mol. Cell. Endocrinol.* 341: 78-88.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **CCL23 (H-2): sc-393897**, our highly recommended monoclonal alternative to CCL23 (C-16).