CCL23 (R-15): sc-46070



The Power to Overtion

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, monoctyes 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

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- 2. Votta, B.J., et al. 2000. CK β 8 [CCL23], a novel CC chemokine, is chemotactic for human osteoclast precursors and is expressed in bone tissues. J. Cell. Physiol. 183: 196-207.
- 3. Clark, V.J., et al. 2004. Haplotype structure and linkage disequilibrium in chemokine and chemokine receptor genes. Hum. Genomics 1: 255-273.
- 4. Shih, C.H., et al. 2005. CCL23/myeloid progenitor inhibitory factor-1 inhibits production and release of polymorphonuclear leukocytes and monocytes from the bone marrow. Exp. Hematol. 33: 1101-1108.
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- Berahovich, R.D., et al. 2005. Proteolytic activation of alternative CCR1 ligands in inflammation. J. Immunol. 174: 7341-7351.
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CHROMOSOMAL LOCATION

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

SOURCE

CCL23 (R-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CCL23 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-46070 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CCL23 (R-15) is recommended for detection of the long isoform 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).

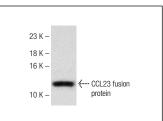
Suitable for use as control antibody for CCL23 siRNA (h): sc-45634, CCL23 shRNA Plasmid (h): sc-45634-SH and CCL23 shRNA (h) Lentiviral Particles: sc-45634-V.

Molecular Weight of CCL23: 13 kDa.

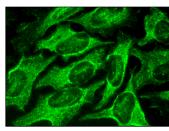
RECOMMENDED SECONDARY REAGENTS

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 (R-15): sc-46070. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization

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.



Try **CCL23 (H-2): sc-393897**, our highly recommended monoclonal alternative to CCL23 (R-15).