

# CCRL2 (S-12): sc-102423

## BACKGROUND

CCRL2 (C-C chemokine receptor-like 2), also known as chemokine receptor X, human chemokine receptor (HCR), CRAM-A or CRAM-B, is a seven-pass transmembrane protein expressed by monocytes, neutrophils and dendritic cells of immunal tissues (predominantly spleen, fetal liver, bone marrow and lymph node). It shares over 40% homology with other C-C chemokine receptors but does not share the conserved DRY motif, which is among the important motifs necessary for signalling and ligand-binding. C-C chemokine receptors are G protein-coupled, seven-pass transmembrane domain proteins whose major physiological role is to function in the chemotaxis of T cells and phagocytic cells to areas of inflammation. CCRL2 responds to inflammatory chemokines and is upregulated in cells stimulated with lipopolysaccharide (LPS). It may function as a receptor for CCL2, CCL5, CCL7 and CCL8. In addition, CCRL2 may be involved in the pathogenesis of rheumatoid arthritis (RA).

## REFERENCES

1. Fan, P., et al. 1998. Cloning and characterization of a novel human chemokine receptor. *Biochem. Biophys. Res. Commun.* 243: 264-268.
2. Margulies, B.J., et al. 2001. Identification and comparison of eleven rhesus macaque chemokine receptors. *AIDS Res. Hum. Retroviruses.* 17: 981-986.
3. Migeotte, I., et al. 2002. Distribution and regulation of expression of the putative human chemokine receptor HCR in leukocyte populations. *Eur. J. Immunol.* 32: 494-501.
4. Biber, K., et al. 2003. Expression of L-CCR in HEK293 cells reveals functional responses to CCL2, CCL5, CCL7, and CCL8. *J. Leukoc. Biol.* 74: 243-251.
5. Galligan, C.L., et al. 2004. Upregulated expression and activation of the orphan chemokine receptor, CCRL2, in rheumatoid arthritis. *Arthritis Rheum.* 50: 1806-1814.
6. Sozzani, S. 2005. Dendritic cell trafficking: more than just chemokines. *Cytokine Growth Factor Rev.* 16: 581-592.
7. Locati, M., et al. 2005. Silent chemoattractant receptors: D6 as a decoy and scavenger receptor for inflammatory CC chemokines. *Cytokine Growth Factor Rev.* 16: 679-686.

## CHROMOSOMAL LOCATION

Genetic locus: CCRL2 (human) mapping to 3p21.

## SOURCE

CCRL2 (S-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of CCRL2 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102423 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

CCRL2 (S-12) is recommended for detection of CCRL2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 CCRL2 siRNA (h): sc-77982, CCRL2 shRNA Plasmid (h): sc-77982-SH and CCRL2 shRNA (h) Lentiviral Particles: sc-77982-V.

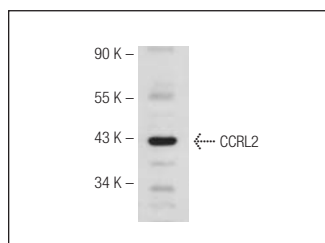
Molecular Weight of CCRL2: 40 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203 or CCRL2 (h): 293 Lysate: sc-172525.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



CCRL2 (S-12): sc-102423. Western blot analysis of CCRL2 expression in K-562 whole cell lysate.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.