

CCRL2 (F-12): sc-102422

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 3p21.31.

SOURCE

CCRL2 (F-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, ready 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 (F-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.

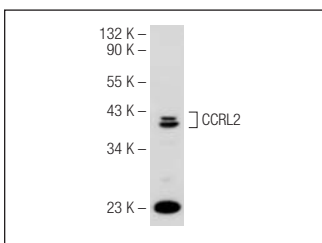
Molecular Weight of CCRL2: 40 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

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 (F-12): sc-102422. 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 or our catalog for detailed protocols and support products.