

CKR-10 (N-20): sc-16995

BACKGROUND

C-C or β chemokine family members are characterized by a pair of adjacent cysteine residues and serve as potent chemoattractants and activators of monocytes and T cells. C-C chemokine receptor family members include CKR-1, CKR-2A, CKR-2B, CKR-3, CKR-4, CKR-5, CKR-6, CKR-7, CKR-8, CKR-9, CKR-10 and the Duffy blood group antigen. Each of these 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. CKR-10 (also designated CCR10 and GPR2) is the specific receptor for CCL27 (also designated CTACK, ESkin, ALP or ILC) and CCL28. The gene encoding CKR-10 has been mapped to human chromosome 7q21.2 and is highly expressed in testis, small intestine, fetal lung and fetal kidney. CKR-10 also has weaker expression in many adult tissues, including melanocytes, dermal fibroblasts and dermal microvascular endothelial cells, which suggest a role for CKR-10 in skin homeostasis and inflammatory response.

REFERENCES

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- Choe, H., et al. 1996. The chemokine receptors CCR3 and CCR5 facilitate infection by primary HIV-1 isolates. *Cell* 85: 1135-1148.
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- Jarmin, D.L., et al. 2000. Cutting edge: identification of the orphan receptor G protein-coupled receptor 2 as CCR10, a specific receptor for the chemokine ESkin. *J. Immunol.* 164: 3460-3464.
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CHROMOSOMAL LOCATION

Genetic locus: CCR10 (human) mapping to 17q21.2.

SOURCE

CKR-10 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of CKR-10 of human origin.

STORAGE

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

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-16995 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CKR-10 (N-20) is recommended for detection of CKR-10 (C-C chemokine receptor gene type 10) of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 CKR-10 siRNA (h): sc-39894, CKR-10 shRNA Plasmid (h): sc-39894-SH and CKR-10 shRNA (h) Lentiviral Particles: sc-39894-V.

Molecular Weight of CKR-10: 38 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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) 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.

SELECT PRODUCT CITATIONS

- Kroeze, K.L., et al. 2009. Chemokine-mediated migration of skin-derived stem cells: predominant role for CCL5/RANTES. *J. Invest. Dermatol.* 129: 1569-1581.

RESEARCH USE

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

PROTOCOLS

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



Try **CKR-10 (E-2): sc-365957** or **CKR-10 (C-5): sc-365531**, our highly recommended monoclonal alternatives to CKR-10 (N-20).