



CKR-9 (7E7): sc-53983

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-9, also designated GPR-9-6, is a receptor for the thymus expressed chemokine TECK. CKR-9 and TECK are thought to have a specialized role in the immune response because both are highly expressed by T lymphocytes in the small intestine, while T lymphocytes in several other tissues are CKR-9/TECK negative.

REFERENCES

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7. Napolitano, M. and Santoni, A. 1999. Structure and function of the C-C chemokine receptor (CCR) 8. *Forum* 9: 315-324.
8. Kunkel, E.J., et al. 2000. Lymphocyte C-C chemokine receptor 9 and epithelial thymus-expressed chemokine (TECK) expression distinguish the small intestinal immune compartment: epithelial expression of tissue-specific chemokines as an organizing principle in regional immunity. *J. Exp. Med.* 192: 761-768.
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CHROMOSOMAL LOCATION

Genetic locus: Ccr9 (mouse) mapping to 9 F4.

SOURCE

CKR-9 (7E7) is a rat monoclonal antibody raised against a synthetic peptide corresponding to amino acids 3-22 of CKR-9 of mouse origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CKR-9 (7E7) is available conjugated to either phycoerythrin (sc-53983 PE) or fluorescein (sc-53983 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

APPLICATIONS

CKR-9 (7E7) is recommended for detection of CKR-9 of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for CKR-9 siRNA (m): sc-39893, CKR-9 shRNA Plasmid (m): sc-39893-SH and CKR-9 shRNA (m) Lentiviral Particles: sc-39893-V.

Molecular Weight of CKR-9: 42 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207 or GA-10 whole cell lysate: sc-364230.

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 for detailed protocols and support products.