

Chemokine Receptor D6 (M-66): sc-134980

BACKGROUND

Chemokine Receptor D6 (also designated Chemokine-binding protein 2, C-C chemokine receptor D6, CCR-9, CCR-10, and CMKBR9) is a member of the C-C (β chemokine) G protein-coupled receptor family. This family is characterized by a pair of adjacent cysteine residues. C-C chemokine receptor family members also include CKR-1, CKR-2A, CKR-2B, CKR-3, CKR-4, CKR-5, CKR-6, CKR-7, CKR-8, CKR-9, CKR-10, CCXCKR, Bonzo, BOB (brother of Bonzo) and 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 sites of inflammation. Chemokine Receptor D6 acts as a receptor for various C-C type chemokines, including SCYA2/MCP-1, SCY3/MIP-1- α , SCYA5/RANTES and SCYA7/MCP-3. It is expressed primarily in placental tissues and fetal liver, but is also detected in lymphatic endothelial cells, lymph nodes and mucosa of the small and large intestines.

REFERENCES

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2. Nibbs, R.J., et al. 1997. Cloning and characterization of a novel promiscuous human β -chemokine receptor D6. *J. Biol. Chem.* 272: 32078-32083.
3. Galliera, E., et al. 2004. β -Arrestin-dependent constitutive internalization of the human chemokine decoy receptor D6. *J. Biol. Chem.* 279: 25590-25597.
4. Martinez de la Torre, Y., et al. 2005. Increased inflammation in mice deficient for the chemokine decoy receptor D6. *Eur. J. Immunol.* 35: 1342-1346.
5. Jamieson, T., et al. 2005. The chemokine receptor D6 limits the inflammatory response *in vivo*. *Nat Immunol.* 6: 403-411.
6. Comerford, I., et al. 2005. Post-translational control of chemokines: a role for decoy receptors? *Immunol. Lett.* 96: 163-174.

CHROMOSOMAL LOCATION

Genetic locus: CCBP2 (human) mapping to 3p22.1; Ccbp2 (mouse) mapping to 9 F4.

SOURCE

Chemokine Receptor D6 (M-66) is a rabbit polyclonal antibody raised against amino acids 313-378 mapping at the C-terminus of Chemokine Receptor D6 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Chemokine Receptor D6 (M-66) is recommended for detection of Chemokine Receptor D6 of mouse, rat and, to a lesser extent, 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 CCR-9 siRNA (h): sc-60337, CCR-9 siRNA (m): sc-60338, CCR-9 shRNA Plasmid (h): sc-60337-SH, CCR-9 shRNA Plasmid (m): sc-60338-SH, CCR-9 shRNA (h) Lentiviral Particles: sc-60337-V and CCR-9 shRNA (m) Lentiviral Particles: sc-60338-V.

Molecular Weight of Chemokine Receptor D6: 43 kDa.

Molecular Weight of Chemokine Receptor D6 dimer: 90 kDa.

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.

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.


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Try **Chemokine Receptor D6 (B-12): sc-365718**, our highly recommended monoclonal alternative to Chemokine Receptor D6 (M-66).