

C10 (M-20): sc-7676

BACKGROUND

C10 is a member of the beta-chemokine family of cytokines. These chemoattractants are typically produced by activated macrophages or lymphocytes, and usually contain a genomic structure including 3 exons. C10, however, contains 4 exons, and is regulated differentially from the typical cytokine family members. This additional exon encodes a portion of the protein thought to define the predominant epitope and to play a significant role in the recognition and activation of chemokine receptors.

REFERENCES

1. Orlofsky, A., Berger, M.S. and Prystowsky, M.B. 1991. Novel expression pattern of a new member of the MIP-1 family of cytokine-like genes. *Cell Regul.* 2: 403-412.
2. Berger, M.S., Kozak, C.A., Gabriel, A. and Prystowsky, M.B. 1993. The gene for C10, a member of the beta-chemokine family, is located on mouse chromosome 11 and contains a novel second exon not found in other chemokines. *D.N.A. Cell Biol.* 12: 839-847.
3. Orlofsky, A., Lin, E.Y. and Prystowsky, M.B. 1994. Selective induction of the beta chemokine C10 by IL-4 in mouse macrophages. *J. Immunol.* 152: 5084-5091.
4. Xu, L.L., Warren, M.K., Rose, W.L., Gong, W. and Wang, J.M. 1996. Human recombinant monocyte chemotactic protein and other C-C chemokines bind and induce directional migration of dendritic cells *in vitro*. *J. Leukoc. Biol.* 60: 365-371.
5. Berger, M.S., et al. 1996. The chemokine C10: immunological and functional analysis of the sequence encoded by the second novel exon. *Cytokine* 8:439-447.
6. Cho, Y.Y., et al. 1997. Homeostasis of chemokines, interferon production and lymphocyte subsets: implications for AIDS pathogenesis. *Biomed. Pharmacother.* 51: 221-229.

SOURCE

C10 (M-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of C10 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-7676 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as PE conjugate for flow cytometry, sc-7676 PE, 100 tests.

STORAGE

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

RESEARCH USE

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

APPLICATIONS

C10 (M-20) is recommended for detection of C10 of mouse and rat 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 C10 siRNA (m): sc-141815, C10 shRNA Plasmid (m): sc-141815-SH and C10 shRNA (m) Lentiviral Particles: sc-141815-V.

Molecular Weight of C10: 13 kDa.

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.

PROTOCOLS

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