SANTA CRUZ BIOTECHNOLOGY, INC.

MIP-5 (C-16): sc-34982

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Chemokines are members of a superfamily of small inducible, secreted, pro-inflammatory cytokines. Members of the chemokine family exhibit 20% to 50% homology in their predicted amino acid sequences and are divided into four subfamilies. In the C-C (or β) subfamily, the first two cysteines are adjacent. C-C chemokines are chemoattractants and activators for monocytes and T cells. C-C subfamily members include macrophage inflammatory protein (MIP)-1α, MIP-1β, MIP-2, MIP-3α, MIP-3β, MIP-4, HCC-1, MIP-5 (or HCC-2), RANTES, MCP-1/2/3 (and the murine homologs JE and MARC), I-309, murine C10 and TCA3. MIP-5 expression is restricted to gut and liver.

REFERENCES

1. Wells, T.N., et al. 1997. The chemokine information source: identification and characterization of novel chemokines using the World Wide Web and expressed sequence tag databases. J. Leukoc. Biol. 61: 545-550.
2. Youn, B.S., et al. 1997. Molecular cloning of Leukotactin-1: a novel human β-chemokine, a chemoattractant for neutrophils, monocytes and lymphocytes, and a potent agonist at C-C chemokine receptors 1 and 3. J. Immunol. 159: 5201-5205.
3. Wang, W., et al. 1998. Molecular cloning and functional characterization of human MIP-1δ, a new C-C chemokine related to mouse CCF-18 and C10. J. Clin. Immunol. 18: 214-222.
4. Youn, B.S., et al. 1998. Characterization of CKβ8 and CKβ8-1: two alternatively spliced forms of human β-chemokine, chemoattractants for neutrophils, monocytes, and lymphocytes, and potent agonists at C-C chemokine receptor 1. Blood 91: 3118-3126.
5. Nomiyama, H., et al. 1999. Organization of the chemokine gene cluster on human chromosome 17q11.2 containing the genes for C-C chemokine MPIF-1, HCC-2, HCC-1, LEC and RANTES. J. Interferon Cytokine Res. 19: 227-234.
6. Hwang, J., et al. 2004. Angiogenic activity of human C-C chemokine CCL15 *in vitro* and *in vivo*. FEBS Lett. 570: 47-51.

CHROMOSOMAL LOCATION

Genetic locus: CCL15 (human) mapping to 17q11.2.

SOURCE

MIP-5 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of MIP-5 of human 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-34982 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

MIP-5 (C-16) is recommended for detection of MIP-5 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); may cross-react with CCL3L1.

Suitable for use as control antibody for MIP-5 siRNA (h): sc-45786, MIP-5 shRNA Plasmid (h): sc-45786-SH and MIP-5 shRNA (h) Lentiviral Particles: sc-45786-V.

Molecular Weight of MIP-5: 7 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.

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.