MIP-3β (K-19): sc-9778



The Power to Question

BACKGROUND

Chemokines are members of a superfamily of small inducible, secreted, proinflammatory 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-X-C (or α) subfamily, the first two of four cysteine residues are separated by a single amino acid. In C-C (or β) subfamily, the first two cysteines are adjacent. C subfamily members, also designated γ chemokines, lack the first and third cysteine residues of the conserved motif. C-C chemokines are chemoattractants and activators for monocytes and T cells. C-C subfamily members include macrophage inflammatory protein (MIP)-1 α , MIP-1 β , MIP-3 α , MIP-3 α , MIP-3 β , 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-3 α is expressed in several tissues and cell lines. MIP-3 β expression is restricted to lymph nodes, thymus and appendix.

REFERENCES

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- 6. Cook, D.N. 1996. The role of MIP-1 α in inflammation and hematopoiesis. J. Leukocyte Biol. 59: 61-66.
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CHROMOSOMAL LOCATION

Genetic locus: CCL19 (human) mapping to 9p13.3; Ccl19 (mouse) mapping to 4 A5.

SOURCE

MIP-3 β (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MIP-3 β 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 μg lgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9778 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MIP-3β (K-19) is recommended for detection of MIP-3β of mouse, rat and 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).

MIP-3 β (K-19) is also recommended for detection of MIP-3 β in additional species, including equine and canine.

Suitable for use as control antibody for MIP-3 β siRNA (h): sc-60001, MIP-3 β siRNA (m): sc-60002, MIP-3 β shRNA Plasmid (h): sc-60001-SH, MIP-3 β shRNA Plasmid (m): sc-60002-SH, MIP-3 β shRNA (h) Lentiviral Particles: sc-60001-V and MIP-3 β shRNA (m) Lentiviral Particles: sc-60002-V.

Molecular Weight of MIP-3β: 9 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.



Try MIP-3 β (ZZ22): sc-74233, our highly recommended monoclonal alternative to MIP-3 β (K-19).

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com