

# MIP-3 $\beta$ (ZZ22): sc-74233

## 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 C-C (or  $\beta$ ) 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)-1 $\alpha$ , MIP-1 $\beta$ , MIP-2, MIP-3 $\alpha$ , MIP-3 $\beta$ , 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 $\alpha$  is expressed in several tissues and cell lines. MIP-3 $\beta$  expression is restricted to lymph nodes, thymus and appendix.

## REFERENCES

1. Zipfel, P.F., et al. 1989. Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors. *J. Immunol.* 142: 1582-1590.
2. Widmer, U., et al. 1993. Genomic cloning and promoter analysis of macrophage inflammatory protein (MIP)-2, MIP-1 $\alpha$  and MIP-1 $\beta$ , members of the chemokine superfamily of proinflammatory cytokines. *J. Immunol.* 150: 4996-5012.
3. Schall, T.J., et al. 1993. Human macrophage inflammatory protein  $\alpha$  (MIP-1 $\alpha$ ) and MIP-1 $\beta$  chemokines attract distinct populations of lymphocytes. *J. Exp. Med.* 177: 1821-1826.
4. Uguccione, M., et al. 1995. Actions of the chemotactic cytokines MCP-1, MCP-2, MCP-3, RANTES, MIP-1 $\alpha$  and MIP-1 $\beta$  on human monocytes. *Eur. J. Immunol.* 25: 64-68.
5. Cocchi, F., et al. 1995. Identification of RANTES, MIP-1 $\alpha$  and MIP-1 $\beta$  as the major HIV-suppressive factors produced by CD8<sup>+</sup> T cells. *Science* 270: 1811-1815.
6. Cook, D.N. 1996. The role of MIP-1 $\alpha$  in inflammation and hematopoiesis. *J. Leukoc. Biol.* 59: 61-66.
7. Taub, D.D., et al. 1996.  $\beta$  chemokines costimulate lymphocyte cytotoxicity, proliferation and lymphokine production. *J. Leukoc. Biol.* 59: 81-89.

## CHROMOSOMAL LOCATION

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

## SOURCE

MIP-3 $\beta$  (ZZ22) is a mouse monoclonal antibody raised against full length recombinant MIP-3 $\beta$  of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2b</sub> in 1.0 ml of PBS with < 0.1% sodium azide and protein stabilizer.

## STORAGE

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

## APPLICATIONS

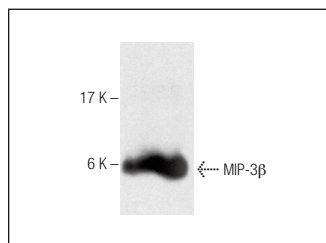
MIP-3 $\beta$  (ZZ22) is recommended for detection of MIP-3 $\beta$  of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

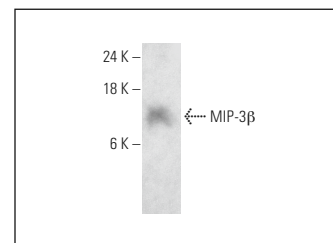
Molecular Weight of MIP-3 $\beta$ : 9 kDa.

Positive Controls: rat thymus extract: sc-2401.

## DATA



MIP-3 $\beta$  (ZZ22): sc-74233. Western blot analysis of human recombinant MIP-3 $\beta$ .



MIP-3 $\beta$  (ZZ22): sc-74233. Western blot analysis of MIP-3 $\beta$  expression in rat thymus tissue extract.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.