MIP-4 (H-12): sc-374439



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 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)-1 α , MIP-1 β , 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-4 is constituitively expressed in several normal tissues and is highly expressed in plasma.

REFERENCES

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

Genetic locus: CCL18 (human) mapping to 17q12.

SOURCE

MIP-4 (H-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 61-89 at the C-terminus of MIP-4 of human origin.

PRODUCT

Each vial contains 200 μ g lgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-374439 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

MIP-4 (H-12) is recommended for detection of MIP-4 of human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for MIP-4 siRNA (h): sc-60003, MIP-4 shRNA Plasmid (h): sc-60003-SH and MIP-4 shRNA (h) Lentiviral Particles: sc-60003-V.

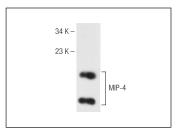
Molecular Weight of MIP-4: 7 kDa.

Positive Controls: human heart extract: sc-363763.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker $^{\text{TM}}$ Molecular Weight Standards: sc-2035, UltraCruz Blocking Reagent: sc-516214 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 m-lgG κ BP-FITC: sc-516140 or m-lgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz Mounting Medium: sc-24941 or UltraCruz Hard-set Mounting Medium: sc-359850.

DATA



MIP-4 (H-12): sc-374439. Western blot analysis of human recombinant MIP-4

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.

PROTOCOLS

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