SANTA CRUZ BIOTECHNOLOGY, INC.

MCP-4 (h3): 293T Lysate: sc-110922

BACKGROUND

Eotaxin and the monocyte chemotactic proteins, MCP-1–5, form a subfamily of the C-C (or β) chemokines, which are characterized by a set of conserved adjacent cysteines. MCPs are produced by a variety of cells, including T lymphocytes, subsequent to their activation with cytokines such as IL-1, TNFα and IFN-γ. *In vitro* studies have shown that the MCP isoforms exhibit their chemotactic effects on different subpopulations of lymphocytes. MCP-4 signals through CCR-2 and -3 and is a potent chemoattractant for monocytes, eosinophils and basophils induced in allergic and nonallergic inflammation.

REFERENCES

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3. Proost, P., Wuyts, A. and Van Damme, J. 1996. Human monocyte chemotactic proteins-2 and -3: structural and functional comparison with MCP-1. J. Leukocyte Biol. 59: 67-74.
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8. Jia, G.Q., Gonzalo, J.A., Lloyd, C., Kremer, L., Lu, L., Martinez-A, C., Wershil, B.K. and Gutierrez-Ramos, J.C. 1996. Distinct expression and function of the novel mouse chemokine monocyte chemotactic protein-5 in lung allergic inflammation. J. Exp. Med. 184: 1939-1951.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: CCL13 (human) mapping to 17q11.2.

PRODUCT

MCP-4 (h3): 293T Lysate represents a lysate of human MCP-4 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MCP-4 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive MCP-4 antibodies. Recommended use: 10-20 µl per lane.

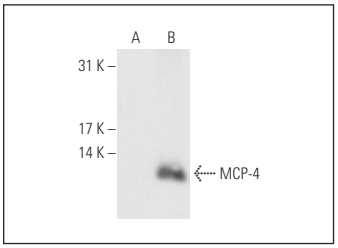
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-tranfected 293T cells.

MCP-4 (D-2): sc-271124 is recommended as a positive control antibody for Western Blot analysis of enhanced human MCP-4 expression in MCP-4 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

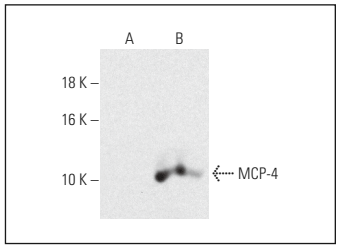
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



MCP-4 (D-2): sc-271124. Western blot analysis of MCP-4 expression in non-transfected: sc-117752 (**A**) and human MCP-4 transfected: sc-110922 (**B**) 293T whole cell lysates.



MCP-4 (D-2): sc-271124. Western blot analysis of MCP-4 expression in non-transfected: sc-117752 (**A**) and human MCP-4 transfected: sc-110922 (**B**) 293T whole cell lysates.

RESEARCH USE

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