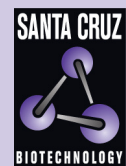


GCP-2 (L-15): sc-103487



The Power to Question

BACKGROUND

Chemokines are members of a superfamily of 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-X-C or α subfamily, the first two of four cysteine motifs are separated by another amino acid residue. The C-X-C chemokine subfamily includes IL-8, GRO α / β / γ (and the murine homologs KC, MIP-2 α and MIP-2 β), platelet basic protein, ENA-78, GCP-2, PF4, IP-10 (and its murine homolog, CRG) and MIG. Granulocyte Chemotactic Protein 2 (GCP-2) acts as a potent chemoattractant of neutrophils in the course of acute inflammation. GCP-2 is highly produced by MG-63 osteosarcoma cells and induces neovascularization, suggesting that it may be involved in tumor development and metastasis formation. GCP-2 is the only ELR⁺-CXC chemokine, except for IL-8, that is an effective ligand for CXCR1 and CXCR2.

REFERENCES

- Oppenheim, J.J., Zachariae, C.O., Mukaida, N. and Matsushima, K. 1991. Properties of the novel proinflammatory supergene "intercrine" cytokine family. *Annu. Rev. Immunol.* 9: 617-648.
- Schall, T.J. 1991. Biology of the RANTES/SIS cytokine family. *Cytokine* 3: 165-183.
- Miller, M.D. and Krangel, M.S. 1992. Biology and biochemistry of the chemokines: a family of chemotactic and inflammatory cytokines. *Crit. Rev. Immunol.* 12: 17-46.
- Taub, D.D. and Oppenheim, J.J. 1993. Review of the Chemokine Meeting of the Third International Symposium of Chemotactic Cytokines. *Cytokine* 5: 175-179.
- Roth, S.J., Carr, M.W. and Springer, T.A. 1995. C-C chemokines, but not the C-X-C chemokines interleukin-8 and interferon- γ inducible protein-10, stimulate transendothelial chemotaxis of T lymphocytes. *Euro. J. Immunol.* 25: 3482-3488.
- Godiska, R., Chantry, D., Dietsch, G.N. and Gray, P.W. 1995. Chemokine expression in murine experimental allergic encephalomyelitis. *J. Neuroimmunol.* 58: 167-176.
- Cook, D.N. 1996. The role of MIP-1 α in inflammation and hematopoiesis. *J. Leukoc. Biol.* 59: 61-66.

CHROMOSOMAL LOCATION

Genetic locus: Cxcl5 (mouse) mapping to 5 E1.

SOURCE

GCP-2 (L-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GCP-2 of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-103487 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GCP-2 (L-15) is recommended for detection of GCP-2 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 GCP-2 siRNA (m): sc-105329, GCP-2 shRNA Plasmid (m): sc-105329-SH and GCP-2 shRNA (m) Lentiviral Particles: sc-105329-V.

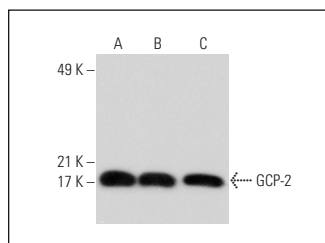
Molecular Weight of GCP-2: 8 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, CSMLO whole cell lysate: sc-364369 or C2C12 whole cell lysate: sc-364188.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



GCP-2 (L-15): sc-103487. Western blot analysis of GCP-2 expression in NIH/3T3 (A), CSMLO (B) and C2C12 (C) whole cell lysates.

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 or our catalog for detailed protocols and support products.