**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 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 GROα/β/γ (and the murine homologs designated GROα, MIP-2, and Cxcl3), platelet basic protein, ENA-78, GCP-2, PF4, IP-10 (and its murine homolog, CRG) and MIG. GROα,β and γ (growth-related onconase α/β/γ) are C-X-C chemokines important for the regulation of cell motility and growth. They function as neutrophil chemoattractants and mediators of angiogenesis. The GRO proteins may play a role in melanocyte progression to melanoma.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CXC1/CXCL2/CXCL3 (human) mapping to 4q13.3; Cxcl1/Cxcl2/Cxcl3 (mouse) mapping to 5 E1.

**SOURCE**

GROα/β/γ (A-6) is a mouse monoclonal antibody raised against amino acids 1-100 representing full length MIP-2 of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

GROα/β/γ (A-6) is available conjugated to agarose (sc-365870 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365870 HRP), 200 µg/ml, for WB, IHC and ELISA; to either phycoerythrin (sc-365870 PE), fluorescein (sc-365870 FITC), Alexa Fluor® 488 (sc-365870 AF488), Alexa Fluor® 546 (sc-365870 AF546), Alexa Fluor® 594 (sc-365870 AF594) or Alexa Fluor® 647 (sc-365870 AF647), 200 µg/ml, for WB (RGB), IF, IHC and FCM; and to either Alexa Fluor® 680 (sc-365870 AF680) or Alexa Fluor® 790 (sc-365870 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

GROα/β/γ (A-6) is recommended for detection of GROα of mouse, rat and human origin, GROβ and GROγ of human origin, MIP-2 and Cxcl3 of mouse origin and the corresponding rat homolog 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of GROα/β/γ: 8 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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 Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**STORAGE**

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

**DATA**

![GROα/β/γ (A-6): sc-365870. Western blot analysis of GROα/β/γ expression in Jurkat whole cell lysate.](image)

![GROα/β/γ (A-6): sc-365870. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing cytoplasmic and membrane staining of urothelial cells.](image)

**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.

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