SANTA CRUZ BIOTECHNOLOGY, INC.

IP-10 (1): sc-101500



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: C-C, C-X-C, C and C-X3-C. In the C-X-C or α subfamily, the first two of four cysteine motifs are separated by another amino acid residue. In the second subfamily, designated C-C or β , the first cysteines are adjacent. C subfamily members, also designated γ chemokines, lack the first and third cysteine residues of the conserved motif. In the C-X3-C, or δ subfamily, members have three amino acids between the two cysteines. The C-X-C chemokine subfamily includes IL-8, GR0 $\alpha/\beta/\gamma$ (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.

CHROMOSOMAL LOCATION

Genetic locus: CXCL10 (human) mapping to 4q21.1.

SOURCE

IP-10 (1) is a mouse monoclonal antibody raised against recombinant IP-10 of human origin.

PRODUCT

Each vial contains 200 μg lgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

IP-10 (1) is available conjugated to agarose (sc-101500 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-101500 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-101500 PE), fluorescein (sc-101500 FITC), Alexa Fluor® 488 (sc-101500 AF488), Alexa Fluor® 546 (sc-101500 AF546), Alexa Fluor® 594 (sc-101500 AF594) or Alexa Fluor® 647 (sc-101500 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-101500 AF680) or Alexa Fluor® 790 (sc-101500 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

IP-10 (1) is recommended for detection of IP-10 of human 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)], immuno-fluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immuno-histochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Suitable for use as control antibody for IP-10 siRNA (h): sc-43866, IP-10 shRNA Plasmid (h): sc-43866-SH and IP-10 shRNA (h) Lentiviral Particles: sc-43866-V.

Molecular Weight of IP-10: 10 kDa.

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.

DATA



IP-10 (1): sc-101500. Western blot analysis of human recombinant IP-10.

SELECT PRODUCT CITATIONS

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- 7. da Silva, T.P., et al. 2020. Macrophage polarization in leprosy-HIV co-infected patients. Front. Immunol. 11: 1493.
- Zhang, W., et al. 2021. Targeting KDM4A epigenetically activates tumorcell-intrinsic immunity by inducing DNA replication stress. Mol. Cell 81: 2148-2165.e9.
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- Chrisochoidou, Y., et al. 2023. Crosstalk with lung fibroblasts shapes the growth and therapeutic response of mesothelioma cells. Cell Death Dis. 14: 725.

PROTOCOLS

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