SANTA CRUZ BIOTECHNOLOGY, INC.

MIG (500-M42): sc-65365



BACKGROUND

MIG (monokine induced by interferon- γ), also designated chemokine (C-X-C motif) ligand 9 (CXCL9), CMK, Humig, SCYB9 or crg-10, is a secreted C-X-C chemokine ligand involved in T cell trafficking; it can inhibit angiogenesis and displays thymus-dependent antitumor effects. Human carcinoma line HSC-2 expresses MIG mRNA in response to IFN- γ , whereas Ca9-22 and the glioma line A172 do not appear to express MIG mRNA. Elevation of serum MIG and CXCL10 in ocular sarcoidosis correlates with ocular disease activity and ACE (angiotensin converting enzyme) levels. The G_{α i} protein-coupled receptor CXCR3 can bind MIG released from intestinal epithelium. MIG can block platelet activating factor (PAF)- or leukotriene B4 (LTB4)-induced responses and can inhibit eotaxin-induced filamentous Actin (F-Actin) formation and chemoattraction. MIG is one of many chemokines that belong to a group of small, mostly basic, structurally related molecules that regulate cell trafficking of various types of leukocytes through interactions with a subset of seven transmembrane, G protein-coupled receptors.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CXCL9 (human) mapping to 4q21.1.

SOURCE

MIG (500-M42) is a mouse monoclonal antibody raised against recombinant MIG of human origin.

PRODUCT

Each vial contains 100 $\mu g~lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

MIG (500-M42) is recommended for detection of MIG 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MIG siRNA (h): sc-39361, MIG shRNA Plasmid (h): sc-39361-SH and MIG shRNA (h) Lentiviral Particles: sc-39361-V.

Molecular Weight of MIG: 8-10 kDa.

DATA



MIG (500-M42): sc-65365. Western blot analysis of human recombinant MIG.

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.