

GM-CSF (h): 293T Lysate: sc-111983

BACKGROUND

Colony stimulating factors (CSFs) were initially characterized by their ability to stimulate *in vitro* colony formation by hematopoietic progenitor cells in semisolid media. Several of these CSFs have been assigned an interleukin number, while three (GM-CSF, G-CSF and M-CSF) have retained their CSF designations. The human granulocyte-macrophage colony stimulating factor (GM-CSF) is a pleiotropic cytokine with a 17 amino acid signal peptide that is cleaved to produce the mature form of 127 amino acids. The mature murine GM-CSF protein is 124 amino acids and shares 60% homology with the human GM-CSF protein. GM-CSF is a glycoprotein that can stimulate the proliferation of hematopoietic cells including granulocytes and macrophages. It has been shown to promote the phosphorylation of cPLA2 in human neutrophils. The phosphorylation of cPLA2 was accompanied by an increase in the enzyme activity.

REFERENCES

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7. Sander, B., Höiden, I., Andersson, U., Möller, E. and Abrams, J.S. 1994. Similar frequencies and blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. *J. Immunol. Methods* 166: 201-214.
8. Nahas, N., Waterman, W.H. and Sha'afi, R.I. 1996. Granulocyte-macrophage colony-stimulating factor (GM-CSF) promotes phosphorylation and an increase in the activity of cytosolic phospholipase A2 in human neutrophils. *Biochem. J.* 313: 503-508.

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: CSF2 (human) mapping to 5q31.1.

PRODUCT

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

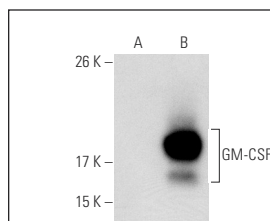
APPLICATIONS

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

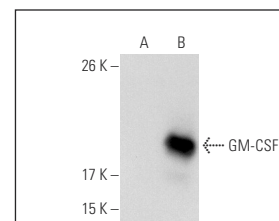
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GM-CSF (NYRhGMCSF): sc-73290 is recommended as a positive control antibody for Western Blot analysis of enhanced human GM-CSF expression in GM-CSF transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



GM-CSF (NYRhGMCSF): sc-73290. Western blot analysis of GM-CSF expression in non-transfected: sc-117752 (A) and human GM-CSF transfected: sc-111983 (B) 293T whole cell lysates.



GM-CSF (B6-2-hGMCSF): sc-32753. Western blot analysis of GM-CSF expression in non-transfected: sc-117752 (A) and human GM-CSF transfected: sc-111983 (B) 293T whole cell lysates.

RESEARCH USE

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