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G-CSFR (h): 293T Lysate: sc-116475

BACKGROUND

The diverse biological activities of G-CSF are initiated by the binding of G-CSF to a specific receptor (G-CSFR) that belongs to the cytokine/hematopoietic receptor superfamily. In contrast to the majority of hematopoietic receptors that are activated through the formation of heteromeric complexes composed of α , β and sometimes γ subunits, G-CSFR proteins are believed to form homodimeric complexes upon ligand binding. Four distinct alternative splice variants of G-CSFR have been described, one of which exists as a soluble receptor protein. Although G-CSFR lacks consensus motifs in its cytoplasmic domains that are characteristic of kinase activities, certain sequences have been identified that are conserved among several members of the cytokine receptor superfamily. For example, the carboxy-terminal regions of G-CSFR contains a domain, designated box 3, that is only shared with the IL-6R subunit, gp130.

REFERENCES

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2. Larsen, A., Davis, T., Curtis, B.M., Gimpel, S., Sims, J.E., Cosman, D., Park, L., Sorenson, E., March, C.J. and Smith, C.A. 1990. Expression cloning of human granulocyte colony-stimulating factor receptor: a structural mosaic of hematopoietin receptor, immunoglobulin, and fibronectin domains. *J. Exp. Med.* 172: 1559-1570.
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5. Saito, M., Yoshida, K., Hibi, M., Taga, T. and Kishimoto, T. 1992. Molecular cloning of a murine IL-6 receptor-associated signal transducer, gp130, and its regulated expression *in vivo*. *J. Immunol.* 148: 4066-4071.

CHROMOSOMAL LOCATION

Genetic locus: CSF3R (human) mapping to 1p34.3.

PRODUCT

G-CSFR (h): 293T Lysate represents a lysate of human G-CSFR transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

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.

APPLICATIONS

G-CSFR (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive G-CSFR antibodies. Recommended use: 10-20 μ l per lane.

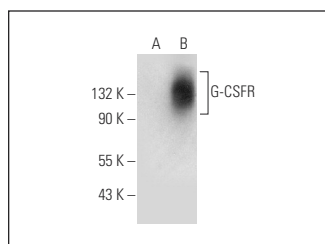
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

G-CSFR (F-11): sc-393698 is recommended as a positive control antibody for Western Blot analysis of enhanced human G-CSFR expression in G-CSFR transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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 Luminol Reagent: sc-2048.

DATA



G-CSFR (F-11): sc-393698. Western blot analysis of G-CSFR expression in non-transfected: sc-117752 (A) and human G-CSFR transfected: sc-116475 (B) 293T whole cell lysates.

RESEARCH USE

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