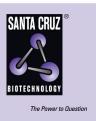
SANTA CRUZ BIOTECHNOLOGY, INC.

SDF-2 (H-36): sc-292756



BACKGROUND

Secretory proteins, such as enzymes, hormones and toxins, are exported by the cell into either ducts (exocrine) or the bloodstream (endocrine). Once secreted, these proteins have a variety of functions within the cell and are involved in signaling pathways, immune responses and hormone regulation. SDF-2 (stromal cell-derived factor-2) is a 211 amino acid protein that contains 3 MIR domains. Expressed throughout the body, SDF-2 shares 92% sequence similarity with its mouse counterpart and is thought to function as a secretory protein. Due to the high similarity between SDF-2 and its corresponding mouse protein, SDF-2 may have a conserved function among mammals.

REFERENCES

- 1. Hamada, T., et al. 1996. Isolation and characterization of a novel secretory protein, stromal cell-derived factor-2 (SDF-2) using the signal sequence trap method. Gene 176: 211-214.
- Wang, N., et al. 1999. SDF-2 induction of terminal differentiation in *Dictyo-stelium discoideum* is mediated by the membrane-spanning sensor kinase DhkA. Mol. Cell. Biol. 19: 4750-4756.
- Fukuda, S., et al. 2001. Murine and human SDF2L1 is an endoplasmic reticulum stress-inducible gene and encodes a new member of the Pmt/ rt protein family. Biochem. Biophys. Res. Commun. 280: 407-414.
- Meunier, L., et al. 2002. A subset of chaperones and folding enzymes form multiprotein complexes in endoplasmic reticulum to bind nascent proteins. Mol. Biol. Cell 13: 4456-4469.
- 5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602934. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Arinami, T. 2006. Analyses of the associations between the genes of 22q11 deletion syndrome and schizophrenia. J. Hum. Genet. 51: 1037-1045.
- Kinseth, M.A., et al. 2007. The Golgi-associated protein GRASP is required for unconventional protein secretion during development. Cell 130: 524-534.

CHROMOSOMAL LOCATION

Genetic locus: SDF2 (human) mapping to 17q11.2; Sdf2 (mouse) mapping to 11 B5.

SOURCE

SDF-2 (H-36) is a rabbit polyclonal antibody raised against amino acids 126-161 mapping within an internal region of SDF-2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

SDF-2 (H-36) is recommended for detection of SDF-2 of mouse, rat and 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)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SDF-2 (H-36) is also recommended for detection of SDF-2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SDF-2 siRNA (h): sc-94163, SDF-2 siRNA (m): sc-153286, SDF-2 shRNA Plasmid (h): sc-94163-SH, SDF-2 shRNA Plasmid (m): sc-153286-SH, SDF-2 shRNA (h) Lentiviral Particles: sc-94163-V and SDF-2 shRNA (m) Lentiviral Particles: sc-153286-V.

Molecular Weight of SDF-2: 23 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, WI 38 whole cell lysate: sc-364260 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try **SDF-2 (J-22): sc-100660**, our highly recommended monoclonal aternative to SDF-2 (H-36).