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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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SR- β (h): 293T Lysate: sc-117123

BACKGROUND

The β -subunit of the signal recognition particle receptor (SR- β), a member of the Ras family of small molecular weight GTPases, targets nascent polypeptides to the protein translocation machinery in the ER. The signal recognition particle receptor (SRP) is a heterodimer of two polypeptides, SR- α and SR- β . The interaction of three GTPases, SRP54, SR- α , and SR- β , controls cotranslational protein transport to the ER. SR- β regulates the interaction of SR with the ribosome and thereby allows SR- α to scan membrane-bound ribosomes for the presence of SRP.

REFERENCES

- Young, J.C., et al. 1995. An amino-terminal domain containing hydrophobic and hydrophilic sequences binds the signal recognition particle receptor α subunit to the β subunit on the endoplasmic reticulum membrane. *J. Biol. Chem.* 270: 15650-15657.
- Bacher, G., et al. 1999. The ribosome regulates the GTPase of the β -subunit of the signal recognition particle receptor. *J. Cell Biol.* 146: 723-730.
- Legate, K.R., et al. 2000. Nucleotide-dependent binding of the GTPase domain of the signal recognition particle receptor β -subunit to the α -subunit. *J. Biol. Chem.* 275: 27439-27446.
- Helmers, J., et al. 2003. The β -subunit of the protein-conducting channel of the endoplasmic reticulum functions as the guanine nucleotide exchange factor for the β -subunit of the signal recognition particle receptor. *J. Biol. Chem.* 278: 23686-23690.
- Legate, K.R., et al. 2003. The β -subunit of the signal recognition particle receptor is a novel GTP-binding protein without intrinsic GTPase activity. *J. Biol. Chem.* 278: 27712-27720.

CHROMOSOMAL LOCATION

Genetic locus: SRPRB (human) mapping to 3q22.1.

PRODUCT

SR- β (h): 293T Lysate represents a lysate of human SR- β 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.

APPLICATIONS

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

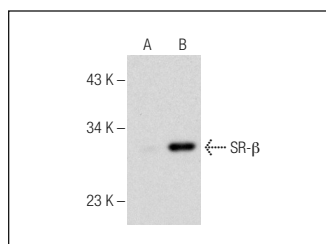
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

SR- β (D-4): sc-376723 is recommended as a positive control antibody for Western Blot analysis of enhanced human SR- β expression in SR- β 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



SR- β (D-4): sc-376723. Western blot analysis of SR- β expression in non-transfected: sc-117752 (A) and human SR- β transfected: sc-117123 (B) 293T whole cell lysates.

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.