

SEC16S (S-12): sc-160781

BACKGROUND

SEC16S, also known as SEC16 homolog B, RGPR, RGPR-p117 (regucalcin gene promoter region-related protein p117) or LZTR2 (leucine zipper transcription regulator 2), is a 1,060 amino acid peripheral membrane protein of the Golgi apparatus and endoplasmic reticulum that is required for normal transitional endoplasmic reticulum (tER) organization. A member of the SEC16 family, SEC16S is the mammalian homolog of *S. cerevisiae* Sec16, which is essential during protein export. SEC16S functions as a transcription factor by binding the TTGGC motif of SMP30 (also known as regucalcin), thereby enhancing regucalcin mRNA expression. Ubiquitously expressed and existing as three alternatively spliced isoforms, SEC16S is encoded by a gene that maps to human chromosome 1q25.2.

REFERENCES

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- Bhattacharyya, D. and Glick, B.S. 2007. Two mammalian Sec16 homologues have nonredundant functions in endoplasmic reticulum (ER) export and transitional ER organization. *Mol. Biol. Cell* 18: 839-849.
- Hotta, K., et al. 2009. Association between obesity and polymorphisms in SEC16B, TMEM18, GNPDA2, BDNF, FAIM2 and MC4R in a Japanese population. *J. Hum. Genet.* 54: 727-731.
- Yamaguchi, M. 2009. Novel protein RGPR-p117: its role as the regucalcin gene transcription factor. *Mol. Cell. Biochem.* 327: 53-63.
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CHROMOSOMAL LOCATION

Genetic locus: SEC16B (human) mapping to 1q25.2; Sec16b (mouse) mapping to 1 H1.

SOURCE

SEC16S (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SEC16S of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-160781 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

SEC16S (S-12) is recommended for detection of SEC16S of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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); non cross-reactive with SEC16L or SEC16A.

Suitable for use as control antibody for SEC16S siRNA (h): sc-88323, SEC16S siRNA (m): sc-153304, SEC16S shRNA Plasmid (h): sc-88323-SH, SEC16S shRNA Plasmid (m): sc-153304-SH, SEC16S shRNA (h) Lentiviral Particles: sc-88323-V and SEC16S shRNA (m) Lentiviral Particles: sc-153304-V.

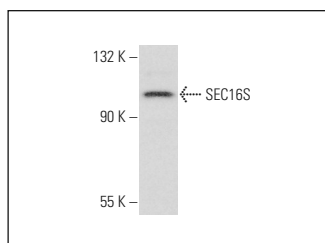
Molecular Weight of SEC16S: 117 kDa.

Positive Controls: mouse testis extract: sc-2405.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SEC16S (S-12): sc-160781. Western blot analysis of SEC16S expression in mouse testis tissue extract.

PROTOCOLS

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