Sec24B (I-16): sc-160785



The Power to Ouestion

BACKGROUND

Sec24B (SEC24 family, member B), also known as SEC24, is a 1,268 amino acid protein belonging to the Sec24 subfamily of the Sec23/Sec24 protein family. Members of this family participate in vesicle trafficking from the endoplasmic reticulum (ER) to the Golgi apparatus. Sec24B is one of four mammalian proteins, namely Sec24A, Sec24B, Sec24C and Sec24D, that are highly related to the *Saccharomyces cerevisiae* protein Sec24, a component of the coat protein complex COPII that mediates the selective export of membrane proteins from the ER. Similar to its yeast counterpart, Sec24B functions as a component of the cytoplasmic COPII complex. Expressed in hepatocytes, lymphocytes and fibroblasts, Sec24B exists as two alternatively spliced isoforms that localize to cytoplasm, golgi apparatus membrane and endoplasmic reticulum membrane.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SEC24B (human) mapping to 4q25; Sec24b (mouse) mapping to 3 G3.

SOURCE

Sec24B (I-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Sec24B of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-160785 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sec24B (I-16) is recommended for detection of Sec24B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 other Sec24 family members.

Sec24B (I-16) is also recommended for detection of Sec24B in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Sec24B siRNA (h): sc-88987, Sec24B siRNA (m): sc-153311, Sec24B shRNA Plasmid (h): sc-88987-SH, Sec24B shRNA Plasmid (m): sc-153311-SH, Sec24B shRNA (h) Lentiviral Particles: sc-88987-V and Sec24B shRNA (m) Lentiviral Particles: sc-153311-V.

Molecular Weight of Sec24B: 137 kDa.

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) 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.

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.

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