

Sec31B (S-14): sc-165455

BACKGROUND

WD-repeats are motifs that are found in a variety of proteins and are characterized by a conserved core of 40-60 amino acids that commonly form a tertiary propeller structure. While proteins that contain WD-repeats participate in a wide range of cellular functions, they are generally involved in regulatory mechanisms concerning chromatin assembly, cell cycle control, signal transduction, RNA processing, apoptosis and vesicular trafficking. Sec31B (SEC31 homolog B (*S. cerevisiae*)), also known as SEC31L2 (SEC31-like 2), is a 1,179 amino acid peripheral membrane protein that plays a role in vesicle budding and cargo export from the endoplasmic reticulum and belongs to the WD repeat SEC31 family. Existing as five alternatively spliced isoforms, Sec31B is ubiquitously expressed and is a component of the coat protein complex II (COPII).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SEC31B (human) mapping to 10q24.31; Sec31b (mouse) mapping to 19 C3.

SOURCE

Sec31B (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Sec31B 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 IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165455 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sec31B (S-14) is recommended for detection of Sec31B 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 Sec31 or Sec31A.

Sec31B (S-14) is also recommended for detection of Sec31B in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Sec31B siRNA (h): sc-90568, Sec31B siRNA (m): sc-153315, Sec31B shRNA Plasmid (h): sc-90568-SH, Sec31B shRNA Plasmid (m): sc-153315-SH, Sec31B shRNA (h) Lentiviral Particles: sc-90568-V and Sec31B shRNA (m) Lentiviral Particles: sc-153315-V.

Molecular Weight of Sec31B: 129 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.