Bet1 (N-18): sc-28082



The Power to Question

BACKGROUND

Bet1 (Bet1p homologue, rbet1) is a Type IV membrane protein. It is required for vesicular transport from the ER to the Golgi complex. Bet1 forms a complex with SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptor), and functions in membrane fusion between ER-derived vesicles and vesicular tubular clusters (VTCs) or by homotypically fusing ER-derived vesicles. Bet1 is predominantly associated with vesicular spotty structures that concentrate in the peri-Golgi region but are also present throughout the cytoplasm.

REFERENCES

- Hay, J.C., et al. 1996. Mammalian vesicle trafficking proteins of the endoplasmic reticulum and Golgi apparatus. J. Biol. Chem. 271: 5671-5679.
- Xu, D., et al. 2000. Subunit structure of a mammalian ER/Golgi SNARE complex. J. Biol. Chem. 275: 39631-39639.
- Joglekar, A.P., et al. 2003. The SNARE motif contributes to rBet1 intracellular targeting and dynamics independently of SNARE interactions. J. Biol. Chem. 278: 14121-14133.
- Miller, E.A., et al. 2003. Multiple cargo binding sites on the COPII subunit Sec24p ensure capture of diverse membrane proteins into transport vesicles. Cell 114: 497-509.
- Volchuk, A., et al. 2004. Countercurrent distribution of two distinct SNARE complexes mediating transport within the Golgi stack. Mol. Biol. Cell 15: 1506-1518.
- SWISS-PROT/TrEMBL (015155). World Wide Web URL: http://www.expasy. ch/sprot/sprot-top.html

CHROMOSOMAL LOCATION

Genetic locus: BET1 (human) mapping to 7q21.3; Bet1 (mouse) mapping to 6 $\rm A1$.

SOURCE

Bet1 (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Bet1 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.

Blocking peptide available for competition studies, sc-28082 P, (100 μ g 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.

PROTOCOLS

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

APPLICATIONS

Bet1 (N-18) is recommended for detection of Bet1 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Bet1 (N-18) is also recommended for detection of Bet1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Bet1 siRNA (h): sc-45900, Bet1 siRNA (m): sc-45901, Bet1 shRNA Plasmid (h): sc-45900-SH, Bet1 shRNA Plasmid (m): sc-45901-SH, Bet1 shRNA (h) Lentiviral Particles: sc-45900-V and Bet1 shRNA (m) Lentiviral Particles: sc-45901-V.

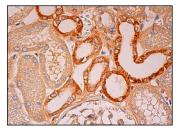
Molecular Weight of Bet1: 18 kDa.

Positive Controls: PC-12 cell lysate: sc-2250 or NRK whole cell lysate: sc-364197.

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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Bet1 (N-18): sc-28082. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney titubules sowing cytoplasmic staining of cells in titulules

RESEARCH USE

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

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