

Bet1L (N-15): sc-161385

BACKGROUND

Correct vesicular transport is essential to the survival of eukaryotic cells. This process is determined by specific pairing of vesicle-associated SNAREs (v-SNAREs) with those on the target membrane (t-SNAREs). This complex then recruits soluble NSF attachment proteins (SNAPs) and N-ethylmaleimide-sensitive factor (NSF) to form the highly stable SNAP receptor (SNARE) complex. The formation of a SNARE complex pulls the vesicle and target membrane together and may provide the energy to drive fusion of the lipid bilayers. Bet1 (Bet1p homologue, rbet1) is a member of the SNARE (soluble N-ethylmaleimide-sensitive factor attachment protein receptor) complex and functions in membrane fusion between ER-derived vesicles and vesicular tubular clusters (VTCs) or by homotypically fusing ER-derived vesicles. The Bet1-like protein (Bet1L, also designated GS15) forms a SNARE complex with Syntaxin 5, GS28 and Ykt6, which mediates trafficking within the Golgi apparatus.

CHROMOSOMAL LOCATION

Genetic locus: BET1L (human) mapping to 11p15.5; Bet1l (mouse) mapping to 7 F5.

SOURCE

Bet1L (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of Bet1L 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-161385 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Bet1L (N-15) is recommended for detection of Bet1L 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 Bet1.1:30-1:3000); non cross-reactive with Bet1.

Bet1L (N-15) is also recommended for detection of Bet1L in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Bet1L siRNA (h): sc-97007, Bet1L siRNA (m): sc-141687, Bet1L shRNA Plasmid (h): sc-97007-SH, Bet1L shRNA Plasmid (m): sc-141687-SH, Bet1L shRNA (h) Lentiviral Particles: sc-97007-V and Bet1L shRNA (m) Lentiviral Particles: sc-141687-V.

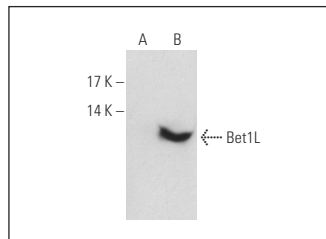
Molecular Weight of Bet1L: 15 kDa.

Positive Controls: Bet1L (h): 293T Lysate: sc-115664.

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



Bet1L (N-15): sc-161385. Western blot analysis of Bet1L expression in non-transfected: sc-117752 (A) and human Bet1L transfected: sc-115664 (B) 293T whole cell lysates.

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.

PROTOCOLS

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

MONOS
Satisfaction
Guaranteed

Try **Bet1L (19): sc-135846**, our highly recommended monoclonal alternative to Bet1L (N-15).