

# Bet1L (19): sc-135846

## 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.

## REFERENCES

1. Bennett, M.K., et al. 1993. The syntaxin family of vesicular transport receptors. *Cell* 74: 863-873.
2. Hay, J.C., et al. 1996. Mammalian vesicle trafficking proteins of the endoplasmic reticulum and Golgi apparatus. *J. Biol. Chem.* 271: 5671-5679.
3. Xu, D., et al. 2000. Subunit structure of a mammalian ER/Golgi SNARE complex. *J. Biol. Chem.* 275: 39631-39639.

## CHROMOSOMAL LOCATION

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

## SOURCE

Bet1L (19) is a mouse monoclonal antibody raised against amino acids 1-85 of Bet1L of rat origin.

## PRODUCT

Each vial contains 200 µg IgG<sub>1</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Bet1L (19) is recommended for detection of Bet1L of mouse, rat, human and canine 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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.

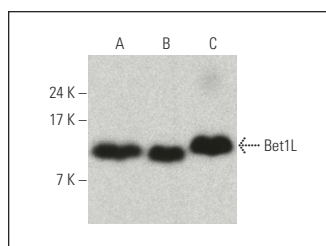
Molecular Weight of Bet1L: 15 kDa.

Positive Controls: Bet1L (m): 293T Lysate: sc-126500, Bet1L (h): 293T Lysate: sc-115664 or SW-13 cell lysate: sc-24778.

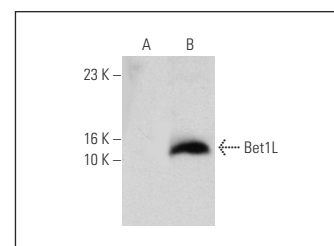
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

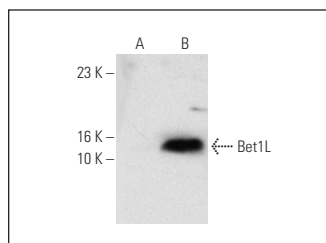
## DATA



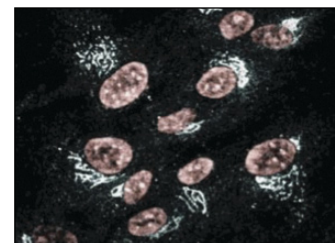
Bet1L (19): sc-135846. Western blot analysis of Bet1L expression in SW-13 (A) and SK-BR-3 (B) whole cell lysates and rat ovary tissue extract (C). Detection reagent used: m-IgGκ BP-HRP: sc-516102.



Bet1L (19): sc-135846. Western blot analysis of Bet1L expression in non-transfected: sc-117752 (A) and human Bet1L transfected: sc-115664 (B) 293T whole cell lysates.



Bet1L (19): sc-135846. Western blot analysis of Bet1L expression in non-transfected: sc-117752 (A) and mouse Bet1L transfected: sc-126500 (B) 293T whole cell lysates.



Bet1L (19): sc-135846. Immunofluorescence staining of human intestinal smooth muscle cells showing cytoplasmic localization.

## 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](http://www.scbt.com) for detailed protocols and support products.