

Syntaxin 8 (48): sc-136092

BACKGROUND

Syntaxins, a family of proteins involved in the fusion of synaptic vesicles with the plasma membrane, display broad tissue distribution and contain C-terminal hydrophobic domains that direct them to their respective intracellular compartments. Syntaxin 8, also known as STX8 or CARB, is a 236 amino acid single-pass type IV membrane protein that contains one t-SNARE coiled-coil homology domain and belongs to the Syntaxin family. Highly expressed in liver, brain, kidney, lung, placenta, spleen, pancreas and skeletal muscle, Syntaxin 8 functions in the early secretory pathway as a vesicle trafficking protein that shuttles proteins from the *cis*-Golgi membrane to the endoplasmic reticulum (ER). In addition, Syntaxin 8 associates with Syntaxin 7, v-SNARE Vti1p and endobrevin to form a SNARE complex that plays a role in the homotypic fusion of late endosomes.

REFERENCES

1. Steegmaier, M., et al. 1998. Three novel proteins of the Syntaxin/SNAP 25 family. *J. Biol. Chem.* 273: 34171-34179.
2. Prekeris, R., et al. 1999. Differential roles of Syntaxin 7 and Syntaxin 8 in endosomal trafficking. *Mol. Biol. Cell* 10: 3891-3908.
3. Thoreau, V., et al. 1999. Molecular cloning, expression analysis, and chromosomal localization of human Syntaxin 8 (STX8). *Biochem. Biophys. Res. Commun.* 257: 577-583.

CHROMOSOMAL LOCATION

Genetic locus: STX8 (human) mapping to 17p13.1; Stx8 (mouse) mapping to 11 B3.

SOURCE

Syntaxin 8 (48) is a mouse monoclonal antibody raised against amino acids 57-164 of Syntaxin 8 of mouse origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Syntaxin 8 (48) is recommended for detection of Syntaxin 8 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 Syntaxin 8 siRNA (h): sc-93822, Syntaxin 8 siRNA (m): sc-153995, Syntaxin 8 shRNA Plasmid (h): sc-93822-SH, Syntaxin 8 shRNA Plasmid (m): sc-153995-SH, Syntaxin 8 shRNA (h) Lentiviral Particles: sc-93822-V and Syntaxin 8 shRNA (m) Lentiviral Particles: sc-153995-V.

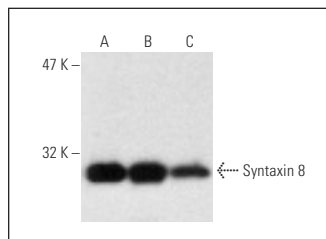
Molecular Weight of Syntaxin 8: 27 kDa.

Positive Controls: Syntaxin 8 (h): 293 Lysate: sc-111333, PC-12 cell lysate: sc-2250 or A549 cell lysate: sc-2413.

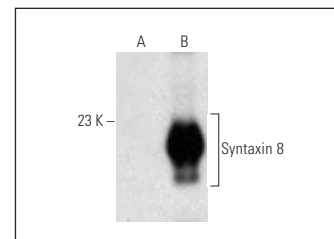
STORAGE

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

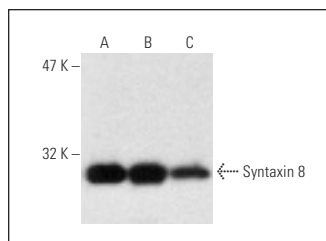
DATA



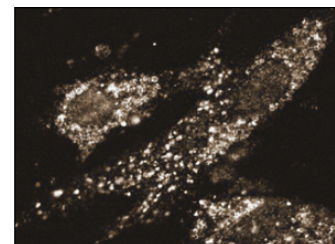
Syntaxin 8 (48): sc-136092. Western blot analysis of Syntaxin 8 expression in A549 (A), PC-12 (B) and NRK (C) whole cell lysates.



Syntaxin 8 (48): sc-136092. Western blot analysis of Syntaxin 8 expression in non-transfected: sc-110760 (A) and human Syntaxin 8 transfected: sc-111333 (B) 293 whole cell lysates.



Syntaxin 8 (48): sc-136092. Western blot analysis of Syntaxin 8 expression in A549 (A), PC-12 (B) and NRK (C) whole cell lysates.



Syntaxin 8 (48): sc-136092. Immunofluorescence staining of WI-38 cells showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

1. Golebiewska, E.M., et al. 2015. Syntaxin 8 regulates platelet dense granule secretion, aggregation, and thrombus stability. *J. Biol. Chem.* 290: 1536-1545.

RESEARCH USE

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

PROTOCOLS

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