

# Syntaxin 8 (H-140): sc-292442

## 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 homo-typic 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.
4. Online Mendelian Inheritance in Man, OMIM™. 1999. Johns Hopkins University, Baltimore, MD. MIM Number: 604203. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Bogdanovic, A., et al. 2002. Syntaxin 7, Syntaxin 8, Vti1 and VAMP-7 (vesicle-associated membrane protein 7) form an active SNARE complex for early macropinocytic compartment fusion in *Dictyostelium discoideum*. *Biochem. J.* 368 1: 29-39.
6. Xu, Y., et al. 2002. GS15 forms a SNARE complex with Syntaxin 5, GS28, and Ykt6 and is implicated in traffic in the early cisternae of the Golgi apparatus. *Mol. Biol. Cell* 13: 3493-3507.

## CHROMOSOMAL LOCATION

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

## SOURCE

Syntaxin 8 (H-140) is a rabbit polyclonal antibody raised against amino acids 1-140 mapping at the N-terminus of Syntaxin 8 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.

## STORAGE

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

## APPLICATIONS

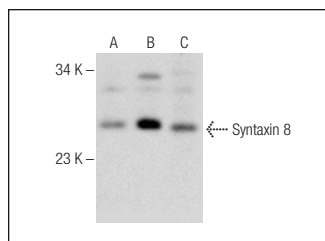
Syntaxin 8 (H-140) is recommended for detection of Syntaxin 8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), 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).

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.

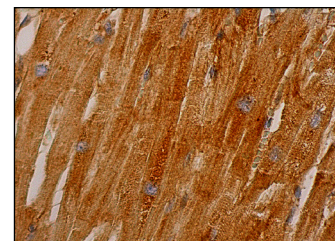
Molecular Weight of Syntaxin 8: 27 kDa.

Positive Controls: A549 whole cell lysate: sc-2413 and Jurkat whole cell lysate: sc-2204 or human kidney extract: sc-363764.

## DATA



Syntaxin 8 (H-140): sc-292442. Western blot analysis of Syntaxin 8 expression in A549 (A) and Jurkat (B) whole cell lysates and human kidney tissue extract (C).



Syntaxin 8 (H-140): sc-292442. Immunoperoxidase staining of formalin fixed, paraffin-embedded human heart muscle tissue showing cytoplasmic staining of myocytes.

## 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) or our catalog for detailed protocols and support products.

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Try **Syntaxin 8 (A-9): sc-376521** or **Syntaxin 8 (48): sc-136092**, our highly recommended monoclonal alternatives to Syntaxin 8 (H-140).