

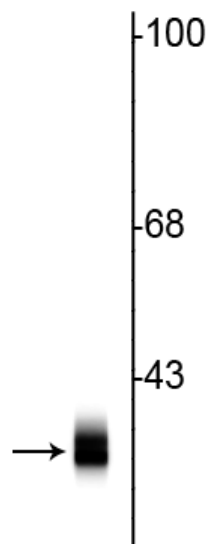
Product Datasheet

Anti-Syntaxin

Overview

Catalog #	1990-STX
Host Species	Mouse Monoclonal
Isotype	IgG ₁
Clone	SP8
Format	Protein G Purified
Applications	WB 1:1000 IHC 1:100
Species Tested	Human, Rat, Pig, Hamster
Immunogen	Synaptic immunoprecipitate (crude) from human brain.
Molecular Weight	36 kDa
Cite this Antibody	PhosphoSolutions Cat# 1990-STX, RRID:AB_2492254

Images



Western blot of rat cortical lysate showing specific immunolabeling of the ~ 36 kDa syntaxin 1A protein.

Details

Target Description	Syntaxins are a family of proteins involved in the docking of synaptic vesicles with the plasma membrane. Syntaxin, along with synaptobrevin and SNAP-25, forms the SNARE complex which mediates synaptic vesicle fusion and exocytosis. Binding of Munc18-1 to the N-terminus of syntaxin 1 has been demonstrated to be essential for exocytic membrane fusion (Khvotchev et al., 2007). Decreased levels of phosphorylated syntaxin 1 in the prefrontal cortex have recently been correlated with schizophrenia (Castillo et al., 2010).
Specificity	Specific for endogenous levels of the ~36 kDa syntaxin protein. The antibody has also been used for immunohistochemistry on formalin fixed, vibratome sections. *Does not work on paraffin sections.
Production/Purification	Protein G purified culture supernatant.
Quality Control	Western blots performed on each lot.
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol.
Stability	After date of receipt, stable for at least 1 year at -20°C.

Significant Citations

Blandford, S.N., Hooper, M.L., Yabana, T., Chauhan, B.C., Baldrige, W.H. and Farrell, S.R., 2019. Retinal Characterization of the Thy1-GCaMP3 Transgenic Mouse Line After Optic Nerve Transection. *Investigative Ophthalmology and Visual Science*, 60(1), pp.183-191.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience **Antibodies that Work™**.

Note: For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.