

## Human/Mouse/Rat Syntaxin 1B Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 676204 Catalog Number: MAB6848

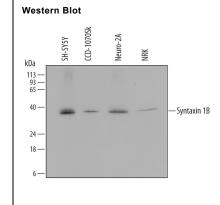
DESCRIPTION			
Species Reactivity	Human/Mouse/Rat		
Specificity	Detects human Syntaxin 1B in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) Syntaxin 1A and 1B1 is observed, and no cross-reactivity with rhSyntaxin 5, 6, 7, 8, 12, or 16 is observed.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 676204		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Syntaxin 1B Lys2-Lys264 Accession # P61266		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

## **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below





Detection of Human, Mouse, and Rat Syntaxin 1B by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line, CCD-1070Sk human foreskin fibroblast cell line, Neuro-2A mouse neuroblastoma cell line, and NRK rat normal kidney cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat Syntaxin 1B Monoclonal Antibody (Catalog # MAB6848) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Syntaxin 1B at approximately 33 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORA	\GE
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**Reconstitution** Sterile PBS to a final concentration of 0.5 mg/mL

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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## Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

## BACKGROUND

Syntaxin 1B/STX1B is an approximately 33 kDa member of the Syntaxin family. It is a single-pass type IV transmembrane protein that is potentially involved in the docking of synaptic vesicles at presynaptic active zones. The cytoplasmic domain of Syntaxin 1B contains a coiled-coil Syntaxin domain (aa 29-180) which is implicated in the docking of synaptic vesicles with the presynaptic plasma membrane and a t-SNARE coiled coil domain (aa 191-253). Within the cytoplasmic domain, human Syntaxin 1B shares 100% aa sequence identity with mouse and rat Syntaxin 1B.

Rev. 2/7/2018 Page 1 of 1

