

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | 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.                               |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 676204                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Syntaxin 1B<br>Lys2-Lys264<br>Accession # P61266                                                                                                                                                                                  |
| <b>Conjugate</b>          | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

#### 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.

#### PRODUCT SPECIFIC NOTICES

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