

## Product datasheet for **TA309250**

### Syntaxin 1a (STX1A) Mouse Monoclonal Antibody [Clone ID: SP8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	SP8
Applications:	WB
Recommended Dilution:	WB: 1:1000, IHC: 1:100
Reactivity:	Human, Porcine, Hamster, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synaptic immunoprecipitate (crude) from human brain
Formulation:	100 µl in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36 kDa
Gene Name:	syntaxin 1A
Database Link:	<a href="#">NP_004594</a> <a href="#">Entrez Gene 116470 Rat</a> <a href="#">Entrez Gene 6804 Human</a> <a href="#">Q16623</a>

**Background:** This gene encodes a member of the syntaxin superfamily. Syntaxins are nervous system-specific proteins implicated in the docking of synaptic vesicles with the presynaptic plasma membrane. Syntaxins possess a single C-terminal transmembrane domain, a SNARE [Soluble NSF (N-ethylmaleimide-sensitive fusion protein)-Attachment protein REceptor] domain (known as H3), and an N-terminal regulatory domain (Habc). Syntaxins bind synaptotagmin in a calcium-dependent fashion and interact with voltage dependent calcium and potassium channels via the C-terminal H3 domain. This gene product is a key molecule in ion channel regulation and synaptic exocytosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.



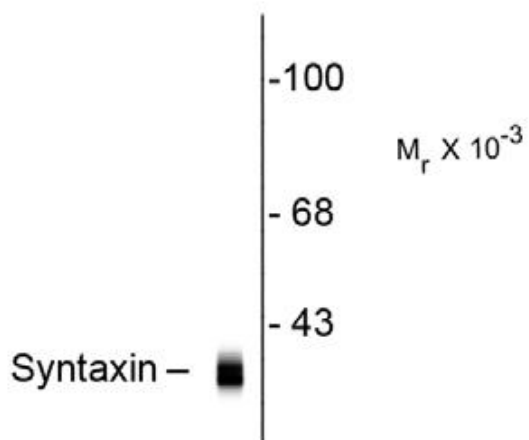
[View online »](#)

**Synonyms:** HPC-1; P35-1; STX1; SYN1A

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** SNARE interactions in vesicular transport

**Product images:**



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