

KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1286**Specification****KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P61764
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 68 kDa , observed, 68 kDa KDa
Gene Name	STXBP1
Aliases	STXBP1; Syntaxin Binding Protein 1; MUNC18-1; Syntaxin-Binding Protein 1; UNC18; Protein Unc-18 Homolog 1; Protein Unc-18 Homolog A; Unc-18A; Unc18-1; HUNC18; N-Sec1; RBSEC1; NSEC1; P67; Neuronal SEC1; RbSec1; UNC18A; NSec1; DEE4
Immunogen	A synthesized peptide derived from human STXBP1

KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	6812
Other Names	
Syntaxin-binding protein 1, MUNC18-1, N-Sec1, Protein unc-18 homolog 1, Unc18-1, Protein unc-18 homolog A, Unc-18A, p67, STXBP1, UNC18A	

KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody - Protein Information**Name** STXBP1**Synonyms** UNC18A**Function**

Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating the assembly of the SNARE complex at synaptic membranes (By similarity). May play a role in determining the specificity of intracellular fusion reactions.

Cellular Location

Cytoplasm, cytosol. Membrane; Peripheral membrane protein

Tissue Location

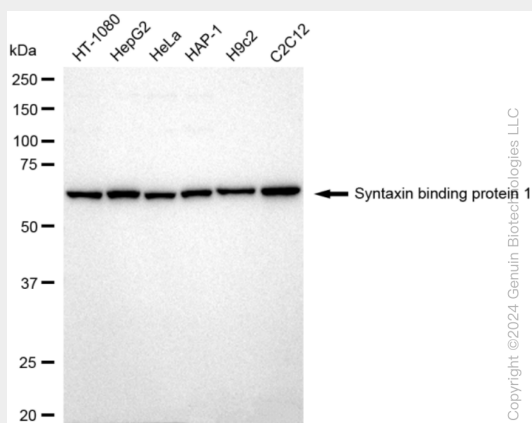
Brain and spinal cord. Highly enriched in axons.

KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody - Protocols

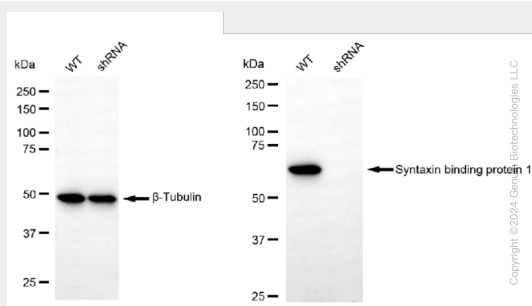
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Syntaxin binding protein 1 Rabbit Monoclonal Antibody - Images

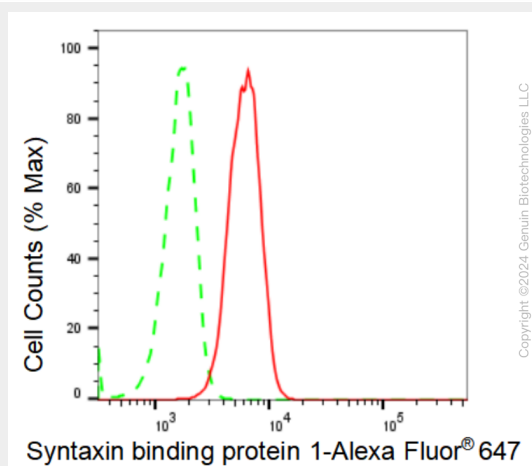


Western blotting analysis using anti-Syntaxin binding protein 1 antibody (Cat#AGI1286). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Syntaxin binding protein 1 antibody (Cat#AGI1286, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

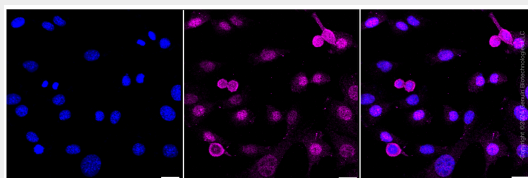


Western blotting analysis using anti-Syntaxin binding protein 1 antibody (Cat#AGI1286). Syntaxin binding protein 1 expression in wild type (WT) and syntaxin binding protein 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Syntaxin binding protein 1 antibody (Cat#AGI1286, 1:5,000) and

HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Syntaxin binding protein 1 expression in C2C12 cells using Syntaxin binding protein 1 antibody (Cat#AGI1286, 1:2,000). Green, isotype control; red, Syntaxin binding protein 1.



Immunocytochemical staining of C2C12 cells with Syntaxin binding protein 1 antibody (Cat#AGI1286, 1:1,000). Nuclei were stained blue with DAPI; Syntaxin binding protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.