

Product Name: KD-Validated Syntaxin Binding Protein 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01475

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 67.6kDa

Antigen Information

Gene Name	STXBP1 STXBP1; Syntaxin Binding Protein 1; MUNC18-1; Syntaxin-Binding Protein 1; UNC18; Protein
Alternative Names	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
Gene ID	6812.0
SwissProt ID	P61764
Immunogen	A synthesized peptide derived from human STXBP1

Background

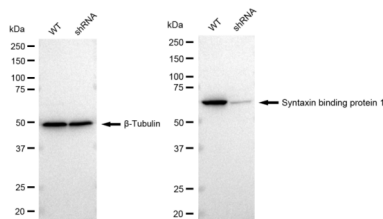
This gene encodes a syntaxin-binding protein. The encoded protein appears to play a role in release of neurotransmitters via

regulation of syntaxin, a transmembrane attachment protein receptor. Mutations in this gene have been associated with infantile epileptic encephalopathy-4. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010]

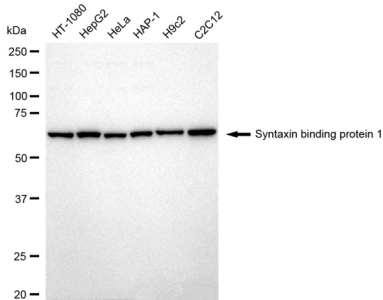
Research Area

Neuroscience,Cancer,Metabolism,Signal Transduction

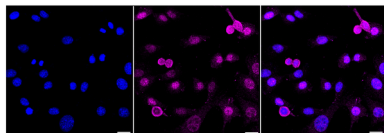
Image Data



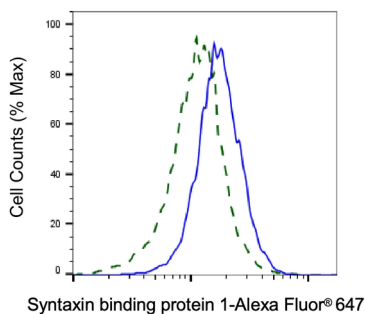
Western blotting analysis using Syntaxin binding protein 1 antibody (KVA01475). Syntaxin binding protein 1 expression in wild type (WT) and syntaxin binding protein 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Syntaxin binding protein 1 antibody (KVA01475, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Syntaxin binding protein 1 antibody (KVA01475). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Syntaxin binding protein 1 antibody (KVA01475, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Syntaxin binding protein 1 antibody (KVA01475, 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 µm.



Validation of Syntaxin binding protein 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Syntaxin binding protein 1 antibody (KVA01475, 1:2,000) and analyzed using BD flow cytometer.

