

Datasheet for ABIN318802

anti-STXBP1 antibody (pSer515)[Go to Product page](#)

Overview

Quantity:	0.1 mL
Target:	STXBP1
Binding Specificity:	pSer515
Reactivity:	Human, Mouse, Rat, Cow, Monkey, Dog, Chicken, Xenopus laevis
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This STXBP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated Ser515 of Munc-18.
Isotype:	IgG
Specificity:	This antibody recognises Munc-18 phosphorylated at serine 515.
Purification:	Purified

Target Details

Target:	STXBP1
Alternative Name:	STXBP1 / UNC18A (STXBP1 Products)
Background:	Munc-18 is a 67 kDa member of the STXBP/UNC-18/SEC1 family. It is neural specific,

Target Details

expressed in the brain, spinal cord and at very high levels in axons. Munc-18 is crucial to calcium-dependent neurotransmitter release, facilitating synaptic vesicle docking and fusion. It inhibits the formation of soluble N-ethylmaleimide-sensitive fusion protein attachment protein receptor (SNARE) complex by binding syntaxin 1 preventing the other components (synaptobrevin and synaptosomal associated protein of 25 kDa (SNAP-25)) from binding. The function of Munc-18 is regulated by the phosphorylation of serine 515 by protein kinase C. Munc-18 is also involved in the onset of female puberty through its regulation of glutamate release. Synonyms: N-Sec1, Syntaxin-binding protein 1, Unc-18 homolog, Unc-18-1, Unc-18A

Gene ID: 25558

NCBI Accession: [NP_037170](#)

UniProt: [P61765](#)

Pathways: [Synaptic Vesicle Exocytosis](#), [Dicarboxylic Acid Transport](#)

Application Details

Application Notes: Western Blot: 1: 1000, detects a band/s of approximately 65 kDa in rat cortex cell lysates.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 10 mM Hepes pH 7.5 containing 0.09 % Sodium Azide (NaN₃), 50 % Glycerol and 0.01 % Bovine Serum Albumin

Preservative: Sodium azide

Precaution of Use: This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.