

Product datasheet for **AP05625PU-N**

Stxbp1 pSer515 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1:1000; detects a band/s of approximately 65kDa in rat cortex cell lysates.
Reactivity:	Bovine, Canine, Chicken, Human, Monkey, Mouse, Rat, Xenopus
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated Ser515 of Munc-18.
Specificity:	This antibody recognises Munc-18 phosphorylated at serine 515.
Formulation:	10mM HEPES pH7.5 containing 0.09% Sodium Azide (NaN ₃), 50% Glycerol and 0.01% Bovine Serum Albumin State: Purified State: Liquid purified IgG
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	syntaxin binding protein 1
Database Link:	Entrez Gene 25558 Rat P61765



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Background:

Munc-18 is a 67 kDa member of the STXBP/UNC-18/SEC1 family. It is neural specific, 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:

Unc-18 homolog, Unc-18-1, Unc-18A, N-Sec1, Syntaxin-binding protein 1