



Magic™ Anti-synaptotagmin 1 (Phospho S309) polyclonal antibody (CPBT-66682RS)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This product recognises synaptotagmin 1 phosphorylated at serine 309, a 60kDa member of the synaptotagmin family, expressed in membranes of synaptic vesicles in rostral, phylogenetically younger brain regions and in some endocrine tissues. Ca ²⁺ is bound by synaptotagmin whose C2 domains then bind phospholipids, trafficking vesicles to the synaptic membrane and exocytosis. This results in fast synchronous neurotransmitter release. Synaptotagmin also binds neuroligins, syntaxin and AP2 independently of Ca ²⁺ binding. Phosphorylation of synaptotagmin by protein kinases is thought to modulate its activity. Western Blotting detects a band of approximately 60kDa in rat cortex cell lysates.
Specificity	SYNAPTOTAGMIN 1
Target	synaptotagmin 1
Immunogen	Phosphopeptide corresponding to amino acid sequence surrounding phosphorylated serine 309 of synaptotagmin 1.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Rat, Bovine, Chicken, Dog, Human, Mouse, Primates, Zebrafish
Conjugate	Unconjugated
Applications	WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.09% Sodium Azide

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	Syt1 synaptotagmin I [Rattus norvegicus (Norway rat)]
Official Symbol	SYT1
Synonyms	SYT1; synaptotagmin I; P65; synaptotagmin-1; sytl; synaptotagmin 1; SYNAPTOTAGMIN 1;
Entrez Gene ID	25716
Protein Refseq	NP_001028852
UniProt ID	P21707
Chromosome Location	7q21
Pathway	Acetylcholine Neurotransmitter Release Cycle; GABA synthesis, release, reuptake and degradation; Glutamate Neurotransmitter Release Cycle; Neuronal System; Neurotransmitter Release Cycle; Norepinephrine Neurotransmitter Release Cycle; Synaptic vesicle cycle; Transmission across Chemical Synapses;
Function	SNARE binding; calcium ion binding; calcium-dependent phospholipid binding; calcium-dependent protein binding; calmodulin binding; clathrin binding; identical protein binding; low-density lipoprotein particle receptor binding; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylserine binding; phospholipid binding; protein C-terminus binding; protein binding; syntaxin binding; syntaxin-1 binding; transporter activity;