Product Data Sheet
Synaptotagmin 1/2 (phospho Ser309/306) Rabbit Polyclonal Antibody

Product name:	Synaptotagmin 1/2 (phospho Ser309/306) Rabbit Polyclonal Antibody
Cat number:	ABN05505
Conjugate:	Unconjugated
Size:	100ul
Clone:	POLY
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Synaptotagmin around the phosphorylation site of Ser309. AA range:276-325
Reactivity:	Human,Mouse,Rat
Applications:	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
Molecular Weight:	47kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Synonyms:	SYT1; SVP65; SYT; Synaptotagmin-1; Synaptotagmin I; SytI; p65; SYT2; Synaptotagmin-2; Synaptotagmin II; SytII
Source:	Rabbit
Background:	The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010],cofactor:Binds 3 calcium ions per subunit. The ions are bound to the C2 domains.,domain:The first C2 domain mediates Ca(2+)-dependent phospholipid binding.,domain:The second C2 domain mediates interaction with SV2A and STN2.,function:May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca(2+)-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca(2+)-independent

manner; these are neurexins, syntaxin and AP2.,similarity:Belongs to the synaptotagmin family.,similarity:Contains 2 C2 domains.,subcellular location:Synaptic vesicles and chromaffin granules.,subunit:Homotetramer (Probable). Interacts with SCAMP5, STN2, SV2A, SV2B, SV2C and RIMS1. Forms a complex with SV2B, syntaxin 1 and SNAP25.,

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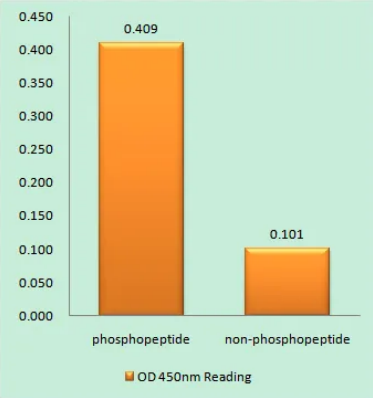
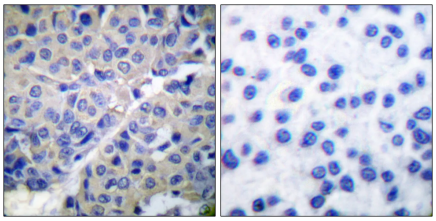
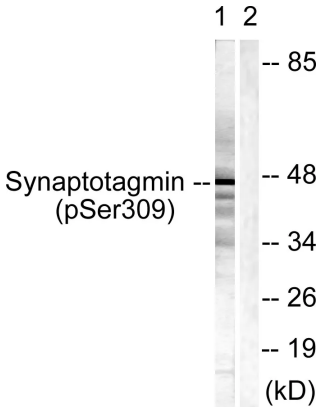


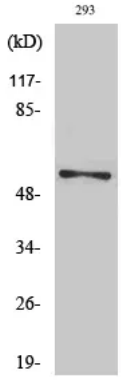
Enzyme-Linked Immunosorbent Assay Phospho-ELISA for Immunogen Phosphopeptide Phospho-left and Non-Phosphopeptide Phospho-right, using Synaptotagmin Phospho-Ser309 Antibody



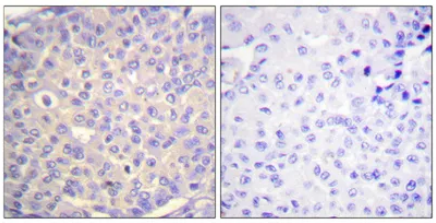
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Synaptotagmin Phospho-Ser309 Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Sobital 0.4M 30', using Synaptotagmin Phospho-Ser309 Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-Synaptotagmin 1/2 S309/306 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:1004°,overnight. High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl right obtaned from antibody was pre-absorbed by immunogen peptide.

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