Synaptotagmin 1/2 (Phospho Thr202/199) Rabbit pAb

CatalogNo: YP0587 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB,IHC,IF,ELISA

MW
- 60kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:40000
IF 1:50-200

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human Synaptotagmin around the phosphorylation site of Thr202. AA range:176-225

Specificity This antibody detects endogenous levels of Synaptotagmin 1/2 only when phosphorylated at Human:T202/199, Mouse:T201/202, Rat:T201/202..The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RKtLN

Target Information

Gene name SYT1/SYT2

Protein Name Synaptotagmin-1/2

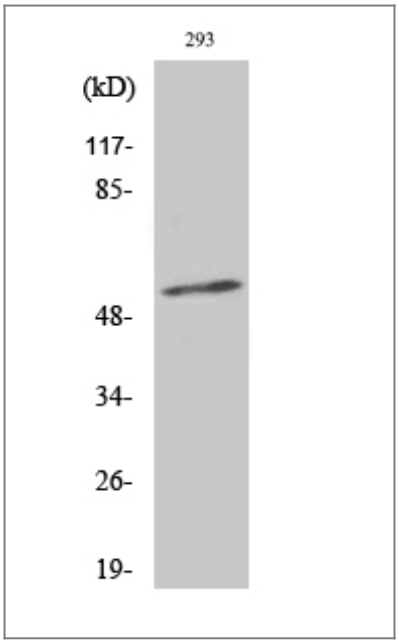
Organism	Gene ID	UniProt ID
Human	6857; 127833;	P21579; Q8N9I0;
Mouse	20979; 20980;	
Rat	25716; 24805;	P21707; P29101;

Cellular Localization Cytoplasmic vesicle , secretory vesicle membrane ; Single-pass membrane protein . Cytoplasmic vesicle , secretory vesicle , synaptic vesicle membrane ; Single-pass membrane protein . Cytoplasmic vesicle , secretory vesicle , chromaffin granule membrane ; Single-pass membrane protein . Cytoplasm .

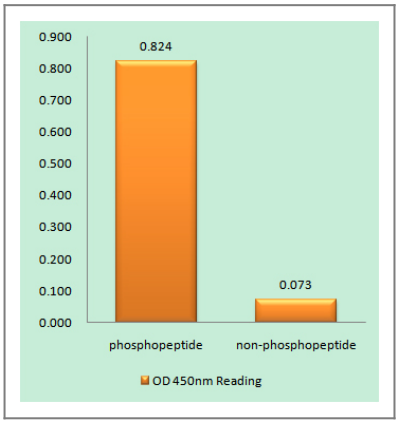
Tissue specificity Expressed in melanocytes (PubMed:23999003) .

Function 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. ,

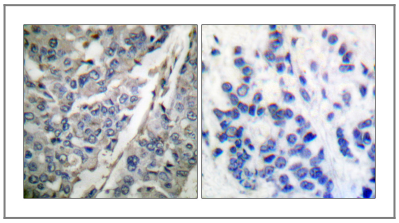
Validation Data



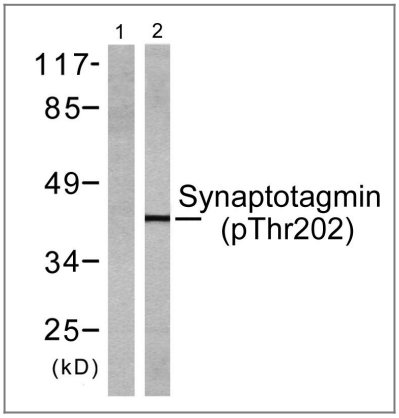
Western Blot analysis of various cells using Phospho-Synaptotagmin 1/2 (T202/199) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Synaptotagmin (Phospho-Thr202) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using Synaptotagmin (Phospho-Thr202) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with Forskolin 40nM 30', using Synaptotagmin (Phospho-Thr202) Antibody. The lane on the left is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
Synaptotagmin 1/2 (Phospho Thr202/199) Rabbit pAb

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