Synaptotagmin (Phospho-Thr202) Antibody

Catalog No: #11645

Package Size: #11645-1 50ul #11645-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

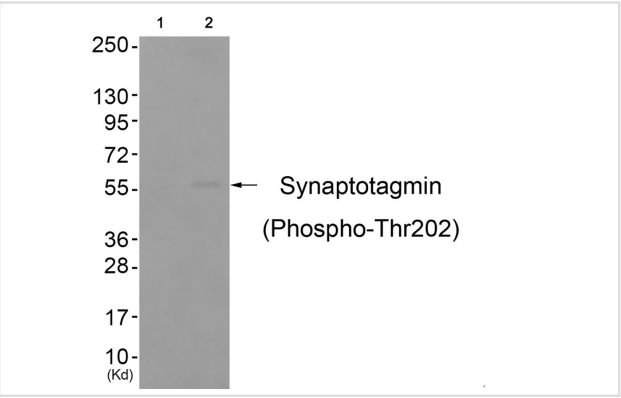
Product Name	Synaptotagmin (Phospho-Thr202) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of Synaptotagmin only when phosphorylated at threonine 202.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 202(R-K-T(p)-L-N) derived from Human Synaptotagmin.
Target Name	Synaptotagmin
Modification	Phospho
Other Names	LAG; LAP18; STN1; Prosolin; stathmin
Accession No.	Swiss-Prot#: P21579; NCBI Gene#: 6857; NCBI Protein#: NP_001129277.1
Uniprot	P21579
GeneID	6857;
SDS-PAGE MW	60kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

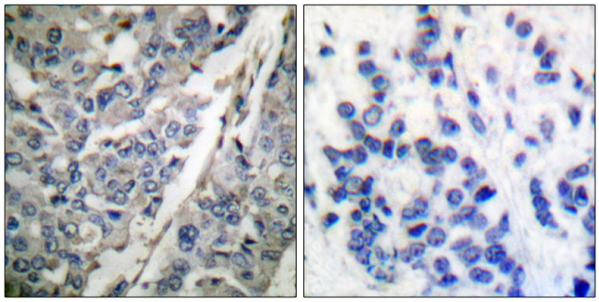
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from colo cells (Lane 2), using Synaptotagmin (Phospho-Thr202) Antibody #11645. The lane on the left is treated with antigen-specific peptide.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Synaptotagmin (phospho-Thr202) antibody #11645 (left)or the same antibody preincubated with blocking peptide (right).

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 I participates in triggering neurotransmitter release at the synapse.

E Carafoli, Crit. Rev. Biochem. Mol. Biol., Apr 2001; 36: 107.

Gry Houeland, J Neurophysiol, Jan 2007; 97: 134 - 143.

Christelle Carteron, J. Cell Sci., Mar 2006; 119: 898 - 909.

Vladimir I. Slepnev, Science, Aug 1998; 281: 821.

Note: This product is for in vitro research use only