

Anti-Synaptotagmin (phospho S309) antibody (ab51179)



1 Image

URL for this product: <http://www.abcam.com/Synaptotagmin-phospho-S309-antibody-ab51179.html>

Product overview

Description	Rabbit polyclonal to Synaptotagmin (phospho S309)
Host species	Rabbit
Specificity	ab51179 detects endogenous levels of Synaptotagmin only when phosphorylated at serine 309.
Tested applications	ELISA, IHC-P
Cross reactivity	Reacts with Mouse, Human
Immunogen	Synthetic phosphopeptide derived from human Synaptotagmin around the phosphorylation site of serine 309 (G-L-S ^p -D-P).
Positive control	IHC-P: Human breast carcinoma tissue.

Target

Relevance	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 participates in triggering neurotransmitter release at the synapse. The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stoinin 2. Synaptotagmin 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.
Cellular localization	Cytoplasmic
Alternative names	DKFZp781D2042 antibody P65 antibody SVP65 antibody Synaptotagmin I antibody Synaptotagmin II antibody Synaptotagmin IV antibody Synaptotagmin V antibody SYT 1 antibody SYT antibody SYT1 antibody SYT2 antibody SYT3 antibody SYT4 antibody SYT5 antibody Sytl antibody

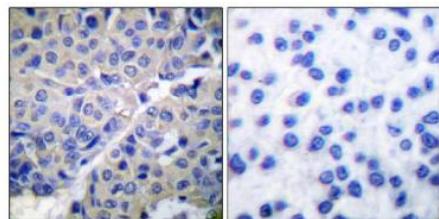
Properties

Form	Liquid
Storage instructions	Store at -20°C. Stable for 12 months at -20°C
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4 See the website for more information on MSDS for this product.
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non phosphopeptide was removed by chromatography using non phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

ELISA	ELISA: 1/10,000
IHC-P	IHC-P: 1/50 - 1/100.

Images (See the website for higher resolution images of this product)



P-peptide

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ab51179, at dilution of 1/50, staining Synaptotagmin in paraffin embedded human breast carcinoma tissue by Immunohistochemistry.
Left image: No peptide.
Right image: Phosphopeptide present.

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Quality is important to Abcam. If this product does not perform as described on this datasheet, notify us within 120 days of delivery using the online form, so that we can help you or offer you a replacement or a refund.