


Product datasheet

Anti-Synaptotagmin (phospho S309) antibody ab51179

1 Image

Overview

<b>Product name</b>	Anti-Synaptotagmin (phospho S309) antibody
<b>Description</b>	Rabbit polyclonal to Synaptotagmin (phospho S309)
<b>Specificity</b>	ab51179 detects endogenous levels of Synaptotagmin only when phosphorylated at serine 309.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic phosphopeptide derived from human Synaptotagmin around the phosphorylation site of serine 309 (G-L-S <sup>P</sup> -D-P).
<b>Positive control</b>	IHC-P: Human breast carcinoma tissue.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	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.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab51179** in the following tested applications.

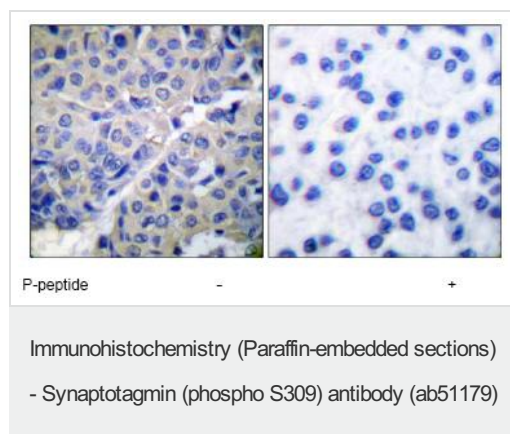
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/10000.
IHC-P		Use at an assay dependent concentration.

## Target

<b>Function</b>	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.
<b>Sequence similarities</b>	Belongs to the synaptotagmin family. Contains 2 C2 domains.
<b>Domain</b>	The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2.
<b>Cellular localization</b>	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane. Synaptic vesicles and chromaffin granules.

## Images



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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