


Product datasheet

Anti-Synaptotagmin (phospho S309) antibody ab51179

1 Image

Overview

Product name	Anti-Synaptotagmin (phospho S309) antibody
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	Suitable for: ELISA, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse 
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.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. 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
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

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

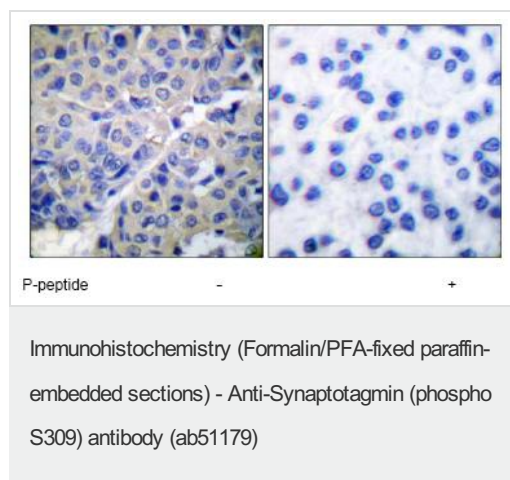
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Target

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.
Sequence similarities	Belongs to the synaptotagmin family. Contains 2 C2 domains.
Domain	The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2.
Cellular localization	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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