


Anti-Synaptotagmin antibody ab51172

[1 References](#) [1 Image](#)

Overview

Product name	Anti-Synaptotagmin antibody
Description	Rabbit polyclonal to Synaptotagmin
Host species	Rabbit
Tested applications	Suitable for: ELISA, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	A synthesized non-phosphopeptide derived from human Synaptotagmin around the phosphorylation site of threonine 202.
Positive control	Human breast carcinoma tissue
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS
Purity	Immunogen affinity purified
Purification notes	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab51172 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.

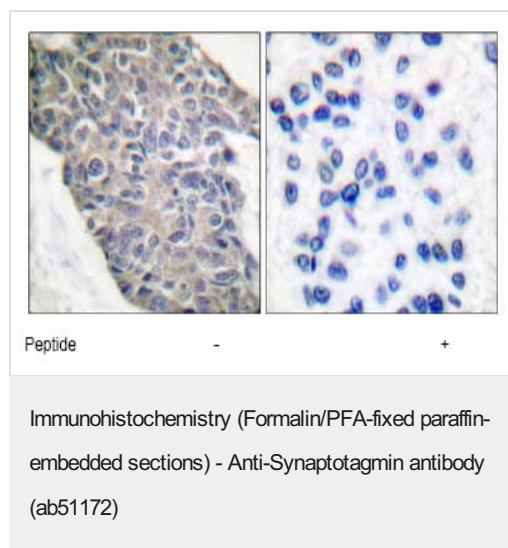
Domain

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



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using ab51172 at a 1:50 dilution. Left image untreated; Right image treated with peptide.

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