abcam

Product datasheet

Anti-Synaptophysin antibody [EPR1097-2] ab178412

Recombinant RabMAb

1 References 3 Images

Overview

Product name Anti-Synaptophysin antibody [EPR1097-2]

Description Rabbit monoclonal [EPR1097-2] to Synaptophysin

Host species Rabbit

Tested applications Suitable for: WB

Unsuitable for: Flow Cyt or ICC/IF

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control Rat brain, PC12, Mouse brain and Human brain lysates; PC12 cells.

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply - Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS

Purity Protein A purified

Clonality Monoclonal Clone number EPR1097-2

Isotype lgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab178412 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
WB		1/1000. Detects a band of approximately 38 kDa (predicted molecular weight: 33 kDa).

Application notes

Is unsuitable for Flow Cyt or ICC/IF.

Target

Function Possibly involved in structural functions as organizing other membrane components or in targeting

the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term

synaptic plasticity.

Tissue specificity Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic

vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial

phenotype.

Involvement in diseaseMental retardation, X-linked, SYP-related

Sequence similarities Belongs to the synaptophysin/synaptobrevin family.

Contains 1 MARVEL domain.

DomainThe calcium-binding activity is thought to be localized in the cytoplasmic tail of the protein.

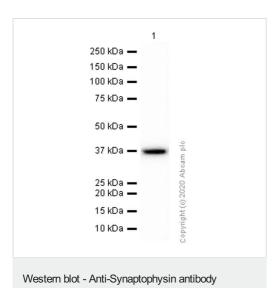
Post-translational Ubiquitinated; mediated by SIAH1 or SIAH2 and leading to its subsequent proteasomal

modifications degradation.

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cell junction, synapse,

synaptosome.

Images



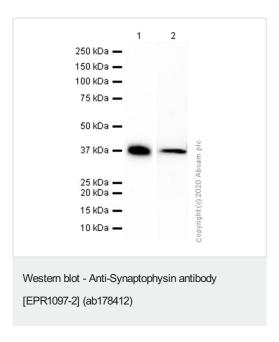
[EPR1097-2] (ab178412)

Anti-Synaptophysin antibody [EPR1097-2] (ab178412) at 1/1000 dilution (Purified) + Rat brain lysate at 15 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 33 kDa **Observed band size:** 38 kDa



All lanes : Anti-Synaptophysin antibody [EPR1097-2] (ab178412) at 1/1000 dilution (Purified)

Lane 1 : Human brain lysate
Lane 2 : Mouse brain lysate

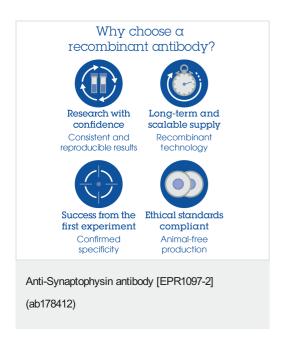
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG (HRP) with minimal cross-reactivity

Predicted band size: 33 kDa
Observed band size: 38 kDa

with human IgG at 1/2000 dilution



Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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