abcam

Product datasheet

Anti-Synapsin I (phospho S9) antibody [EP2162Y] ab76260

Recombinant RabMAb

6 References 7 Images

Overview

Product name	Anti-Synapsin I (phospho S9) antibody [EP2162Y]
Description	Rabbit monoclonal [EP2162Y] to Synapsin I (phospho S9)
Host species	Rabbit
Tested applications	**Suitable for:** WB, Dot blot **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human, mouse and rat brain tissue lysates, untreated or treated with AP.
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. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EP2162Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76260 in the following tested applications.

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

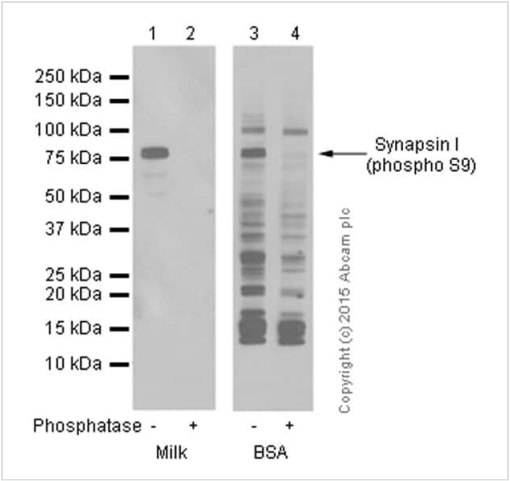
Application	Abreviews	Notes
WB		1/1000 - 1/5000. Detects a band of approximately 74 kDa (predicted molecular weight: 74 kDa).
Dot blot		1/1000.

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

Function	Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level.
Involvement in disease	Defects in SYN1 are a cause of epilepsy X-linked with variable learning disabilities and behavior disorders [MIM:300491]. XELBD is characterized by variable combinations of epilepsy, learning difficulties, macrocephaly, and aggressive behavior.
Sequence similarities	Belongs to the synapsin family.
Post-translational modifications	Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the regulation of synapsin-1 in the nerve terminal. Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cell junction > synapse. Golgi apparatus.

Images



Western blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

All lanes : Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260) at 1/1000 dilution

Lanes 1 & 3 : Human brain whole cell lysate - untreated
Lanes 2 & 4 : Human brain whole cell lysate - treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 74 kDa
Observed band size: 77 kDa

Exposure time:

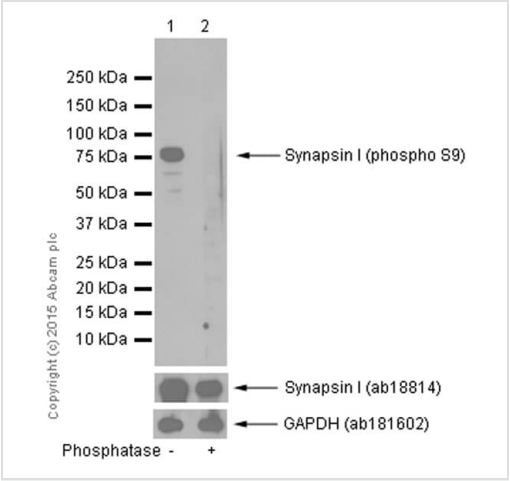
Lanes 1 and 2: 1 second.

Lanes 3 and 4: 15 seconds.

Blocking and dilution buffer:

Lanes 1 and 2: 5% NFDM/TBST.

Lanes 3 and 4: 2% BSA/TBST.



Western blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

All lanes : Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260) at 1/5000 dilution

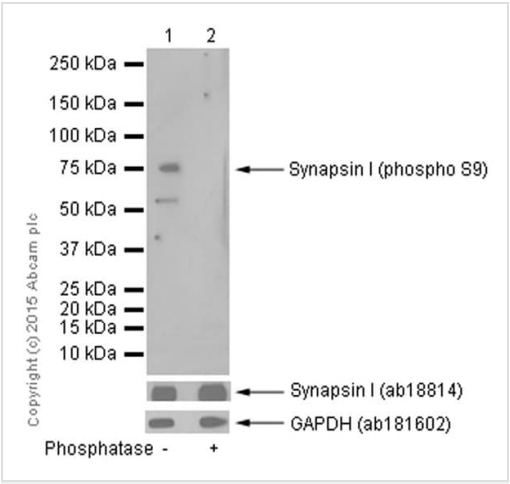
Lane 1 : Human brain whole cell lysate - untreated
Lane 2 : Human brain whole cell lysate - treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 74 kDa
Observed band size: 77 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

All lanes : Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260) at 1/200 dilution

Lane 1 : Mouse brain whole cell lysate - untreated
Lane 2 : Mouse brain whole cell lysate - treated with Alkaline Phosphatase

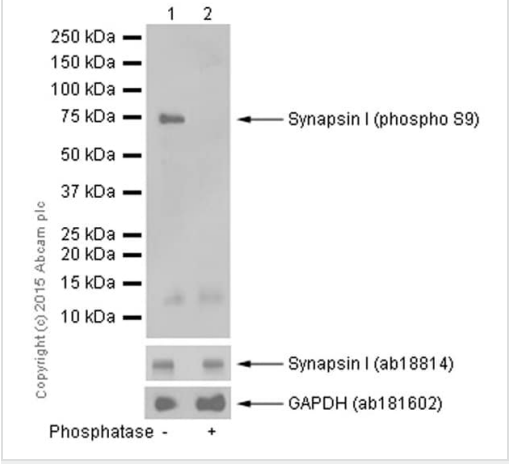
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 74 kDa
Observed band size: 77 kDa

Exposure time: 3 minutes

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

All lanes : Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260) at 1/1000 dilution

Lane 1 : Rat brain whole cell lysate - untreated
Lane 2 : Rat brain whole cell lysate - treated with Alkaline Phosphatase

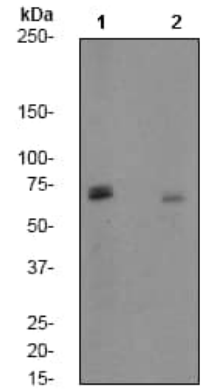
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 74 kDa
Observed band size: 77 kDa

Exposure time: 1 second

Blocking and dilution buffer: 2% BSA/TBST.



Western blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

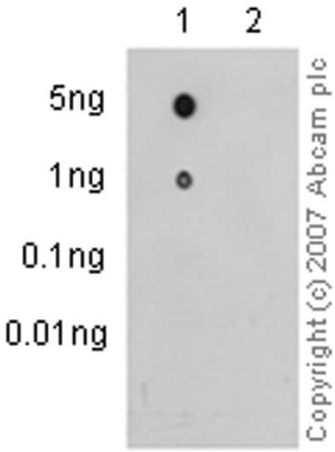
All lanes : Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

Lane 1 : Human brain tissue lysate, untreated
Lane 2 : Human brain tissue lysate, treated with AP

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 74 kDa
Observed band size: 74 kDa

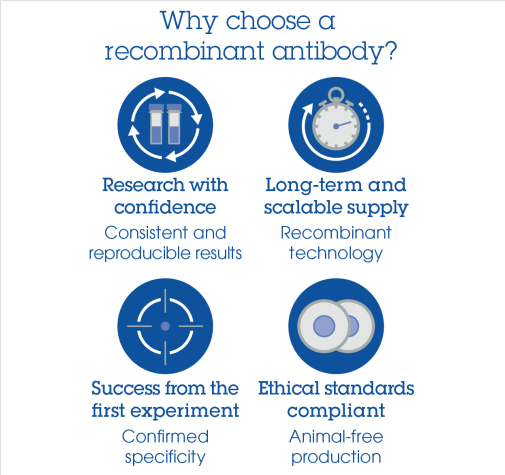


Dot Blot - Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

Dot blot analysis of Synapsin I (pS9) phospho peptide (lane 1) and Synapsin I non-phospho peptide (lane 2) labelling Synapsin I (pS9) with ab76260 at a dilution of 1/1000. A peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/2500).

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.



Anti-Synapsin I (phospho S9) antibody [EP2162Y] (ab76260)

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