abcam

ab315893

Anti-Munc18-1 antibody [EPR27956-86]

Recombinant | RabMAb | KO Validated | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR27956-86
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human IHC.
Concentration	0.49 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/2000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Human, Transfected cell lysate - Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Rat
Dilution info	1/100
Notes	-

Not recommended

Species	Human, Transfected cell lysate - Mouse
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Species	Rat
Dilution info	1/50
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse

Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Mouse
Dilution info	-
Notes	-

Dot

Tested

Species	Transfected cell lysate - Mouse
Dilution info	1/1000
Notes	-

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

IP

Not recommended

Species	Mouse, Human, Rat, Transfected cell lysate - Mouse
Dilution info	-
Notes	-

Target data

See full target information Stxbp1

Function	Participates in the regulation of synaptic vesicle docking and fusion through interaction with GTP-binding proteins (By similarity). Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. Involved in the release of neurotransmitters from neurons through interacting with SNARE complex component STX1A and mediating the assembly of the SNARE complex at synaptic membranes (PubMed:21445306, PubMed:28821673). May play a role in determining the specificity of intracellular fusion reactions (By similarity).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Munc18-1 also known as Syntaxin-binding protein 1 is an important protein involved in the regulation of neurotransmitter release at synapses. It has a molecular mass of approximately 67 kDa. This protein is highly expressed in the brain where it plays a significant role in synaptic vesicle exocytosis. Munc18-1 interacts with components of the SNARE complex facilitating the docking and fusion of synaptic vesicles with the presynaptic membrane.
Biological function summary	This protein is important for the proper release of neurotransmitters into the synaptic cleft. Munc18-1 functions as a part of the neuronal exocytosis complex where it regulates the interaction with syntaxin-1 a core SNARE protein. This protein-protein interaction stabilizes an intermediate state necessary for vesicle priming and subsequent fusion ensuring efficient synaptic transmission. By controlling vesicle movement Munc18-1 influences communication between neurons.
Pathways	Munc18-1 integrates into the neurotransmitter release pathway which is central to synaptic function. It closely associates with the SNARE complex involving proteins such as SNAP-25 and synaptobrevin. Another important pathway is the synaptic vesicle cycle where Munc18-1 plays a role in vesicle docking and priming stages. Through these interactions it ensures that synaptic vesicles are ready and able to release their contents upon stimulation.
Associated diseases and disorders	Alterations in Munc18-1 expression or function connect to neurological conditions like epilepsy and intellectual disability. In epilepsy dysregulation of neurotransmitter release due to modified Munc18-1 function disrupts synaptic communication leading to seizure activity. In the context of these disorders Munc18-1 interacts functionally with proteins such as VAMP2 contributing to the pathological state when disrupted. These interactions highlight the importance of Munc18-1 in maintaining normal neurological function.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

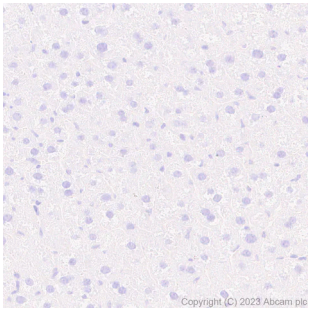
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

18 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse liver using rabbit Anti-Munc18-1 antibody

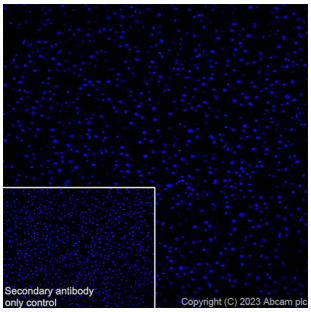
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Munc18-1 with ab315893 at 1/2000 (0.245 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on mouse liver (PMID: 8824310). The section was incubated with ab315893 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



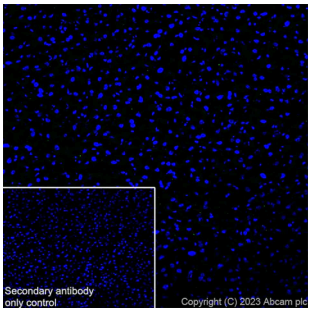
Immunohistochemistry (Frozen sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Immunohistochemistry (Frozen sections) staining of Rat liver (fresh frozen) using rabbit Anti-Munc18-1 antibody

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Negative control: confocal image showing no staining on rat liver. The nuclear counterstain was DAPI (Blue). The section was incubated with ab315893 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 2 ug/mL dilution.



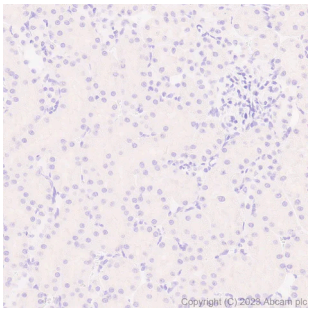
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Negative control: confocal image showing no staining on mouse liver (PMID: 8824310). The nuclear counterstain was DAPI (Blue). The section was incubated with ab315893 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat kidney using rabbit Anti-Munc18-1 antibody

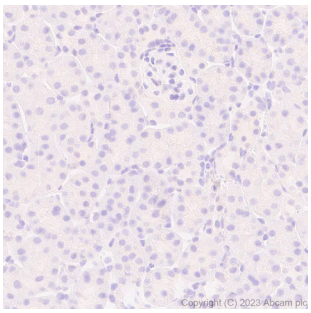
Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling Munc18-1 with ab315893 at 1/2000 (0.245 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on rat kidney. The section was incubated with ab315893 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



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Munc18-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse kidney using rabbit Anti-Munc18-1 antibody

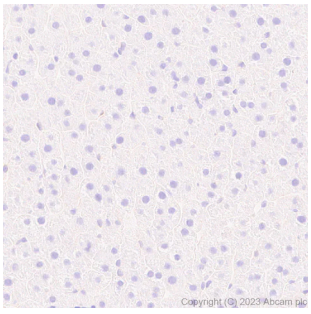
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Negative control: no staining on mouse kidney (PMID: 8824310). The section was incubated with ab315893 for 30 mins at room temperature.
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Munc18-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat liver using rabbit Anti-Munc18-1 antibody

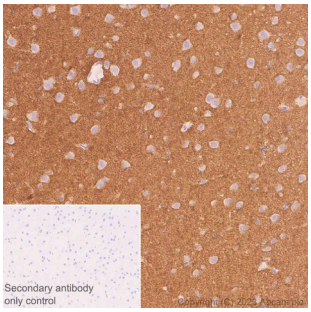
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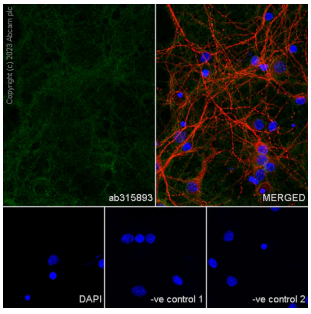
Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling Munc18-1 with ab315893 at 1/2000 (0.245 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat cerebrum. The section was incubated with ab315893 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



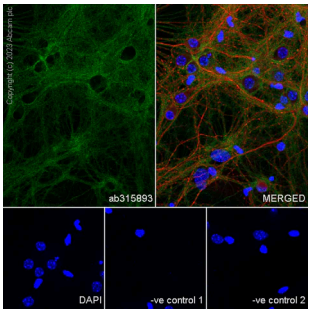
Immunocytochemistry/ Immunofluorescence - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cell cells labelling Munc18-1 with ab315893 at 1/100 (4.9 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green).

Confocal image showing cytoplasmic staining in rat primary neuron.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

ab11267 Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 4ug/ml dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/ml dilution.



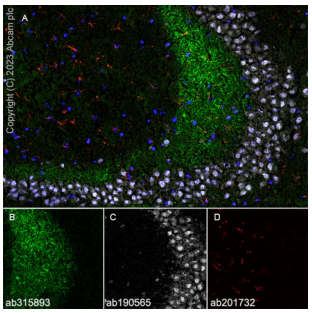
Immunocytochemistry/ Immunofluorescence - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cell cells labelling Munc18-1 with ab315893 at 1/100 (0.49 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 2 ug/ml dilution (Green).

Confocal image showing cytoplasmic staining in mouse primary neuron.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

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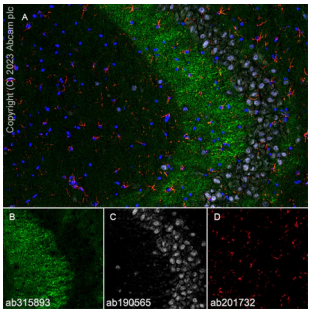
Immunohistochemistry (Frozen sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Immunohistochemistry (Frozen sections) staining of Mouse hippocmapus (fresh frozen) using rabbit Anti-Munc18-1 antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse hippocmapus (fresh frozen) tissue labeling Munc18-1 with ab315893 at 1/50 (9.8 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green).

Panel A: merged staining of anti-Munc18-1 (ab315893, green), anti-NeuN (ab190565, grey) and anti-GFAP (ab201732, red) on mouse hippocampus.
Panel B: anti-Munc18-1 stained on mouse hippocampus.
Panel C: anti-NeuN stained in neurons of mouse hippocampus.
Panel D: anti-GFAP stained in astrocytes of mouse hippocampus.
The nuclear counterstain was DAPI (Blue). The section was incubated with ab315893 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 2 ug/mL dilution.



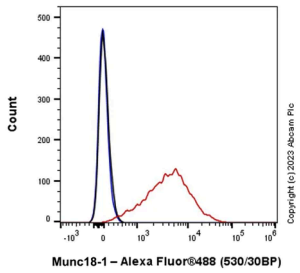
Immunohistochemistry (Frozen sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Immunohistochemistry (Frozen sections) staining of Rat hippocmapus (fresh frozen) using rabbit Anti-Munc18-1 antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat hippocmapus (fresh frozen) tissue labeling Munc18-1 with ab315893 at 1/50 (9.8 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green).

Panel A: merged staining of anti-Munc18-1 (ab315893, green), anti-NeuN (ab190565, grey) and anti-GFAP (ab201732, red) on rat hippocampus.
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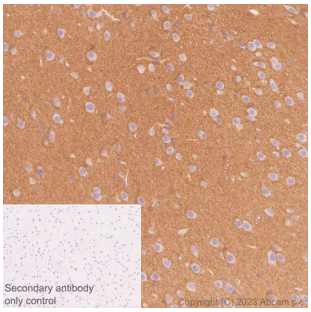
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Flow Cytometry (Intracellular) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells labelling Munc18-1 with ab315893 at 1/500 dilution (0.1 ug)/Red (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue).

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

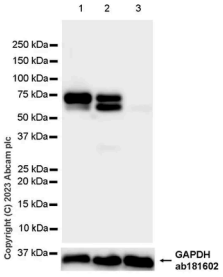
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Positive staining on mouse cerebrum (PMID: 8824310). The section was incubated with ab315893 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument

Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins



Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Western blot staining using rabbit Anti-Munc18-1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Negative control: skeletal muscle (PMID:7768895).
ab315893 detects both two isoforms of Munc18-1, around 67 and 68 kDa in Western blot (PMID: 20861382).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893) at 1/1000 dilution

Lane 1:
Human brain tissue lysate at 50 µg

Lane 2:
Human cerebellum tissue lysate at 50 µg

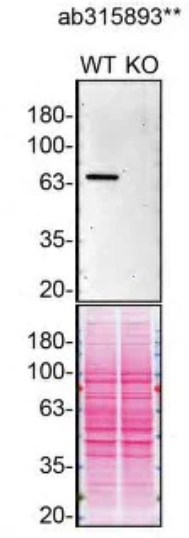
Lane 3:
Human skeletal muscle tissue lysate at 50 µg

Secondary

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

Observed band size: 67 kDa, 68 kDa, 36 kDa

Exposure time: 3s



Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

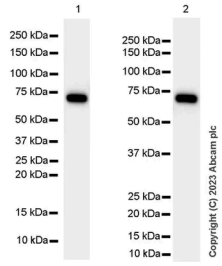
Munc18-1 Western blot staining using rabbit Anti-Munc18-1 antibody

ab315893 was shown to react with STXBP1 in wild-type U-87 MG cells in Western blot with loss of signal observed in STXBP1 knockout cell line ab322392. Wild-type U-87 MG and STXBP1 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab315893 overnight at 4 °C at a 1/1000 dilution. Blots were incubated with secondary antibodies at 0.2 µg/mL before imaging.

This data was provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.
All lanes:
Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893) at 1/1000 dilution

Lane 1:
Wild-type U-87 MG lysate at 40 µg

Lane 2:
STXBP1 knock-out U-87 MG lysate at 40 µg



Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Western blot staining using rabbit Anti-Munc18-1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
All lanes:
Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893) at 1/1000 dilution

Lane 1:
Mouse hippocampus tissue lysate at 50 µg

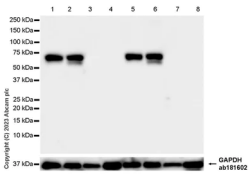
Lane 2:
Rat hippocampus tissue lysate at 50 µg

Secondary

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

Observed band size: 67 kDa, 68 kDa

Exposure time: 3s



Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Western blot staining using rabbit Anti-Munc18-1 antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Negative control: skeletal muscle (PMID:7768895).

Low expression: liver (PMID:7768895).

ab315893 detects both two isoforms of Munc18-1, around 67 and 68 kDa in Western blot (PMID: 20861382).

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) staining at 1/200000 dilution.

All lanes:
Western blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893) at 1/1000 dilution

Lane 1:
Mouse brain tissue lysate at 50 µg

Lane 2:
Mouse cerebellum tissue lysate at 50 µg

Lane 3:
Mouse liver tissue lysate at 50 µg

Lane 4:
Mouse skeletal muscle tissue lysate at 50 µg

Lane 5:
Rat brain tissue lysate at 50 µg

Lane 6:
Rat cerebellum tissue lysate at 50 µg

Lane 7:
Rat liver tissue lysate at 50 µg

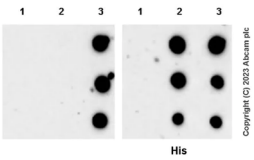
Lane 8:
Rat skeletal muscle tissue lysate at 50 µg

Secondary

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

Observed band size: 67 kDa, 68 kDa, 36 kDa

Exposure time: 3s



Dot Blot - Anti-Munc18-1 antibody [EPR27956-86] (ab315893)

Munc18-1 Dot Blot staining using rabbit Anti-Munc18-1 antibody

Dot blot analysis of Munc18-1 using ab315893 at 1:1000 (0.49 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.

Exposure time: 180 seconds.

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

This antibody does not cross-react with mouse STXBP2.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.