abcam

ab316859

Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR28704-52
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human IHC, human ICC and human FC.
Concentration	0.995 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Dot

Tested

Species	Recombinant fragment - Mouse

Dilution info	-
Notes	-

Expected

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

WB

Tested

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Human, Recombinant fragment - Mouse
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment - Mouse
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Human, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Not recommended

Species	Human, Recombinant fragment - Mouse
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Human, Rat, Recombinant fragment - Mouse
Dilution info	-
Notes	-

Target data

See full target information Dlg3

Function	Required for learning most likely through its role in synaptic plasticity following NMDA receptor signaling.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab316859 is the carrirer-free version of ab316858.

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.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Supplementary info

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

Activity summary	SAP102 also known as DLG3 is a member of the membrane-associated guanylate kinase (MAGUK) protein family. This protein weighs approximately 97 kDa and is mainly expressed in the brain. SAP102 plays a significant role in signal transduction by organizing synaptic signaling complexes. It contains PDZ domains that facilitate protein-protein interactions and its expression in neuronal synapses is notable.
Biological function summary	The interaction between SAP102 and N-methyl-D-aspartate (NMDA) receptors has major implications in synapse development and plasticity. SAP102 forms part of the postsynaptic density (PSD) complex which contributes to synaptic organization and dynamics. This complex is essential for the correct functioning of synaptic signaling pathways influencing learning and memory processes.
Pathways	The regulation of synaptic plasticity and neurotransmitter release involves SAP102. In this context it plays a part in the NMDA receptor signaling pathway and the synaptic vesicle cycle. SAP102 is associated with proteins such as PSD95 and SAP97 which work together to modulate synaptic strength and communication.
Associated diseases and disorders	Abnormalities in SAP102 function or expression have links to neurodevelopmental disorders like intellectual disability and autism spectrum disorder. Mutations in SAP102 and related proteins such as neuroligins or neurexins can disrupt synaptic communication leading to defective neural circuit formation. Understanding

SAP102's role in these disorders offers insights into potential therapeutic approaches.

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

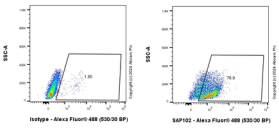
We do not recommend this combination. It is not covered by our product promise.

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

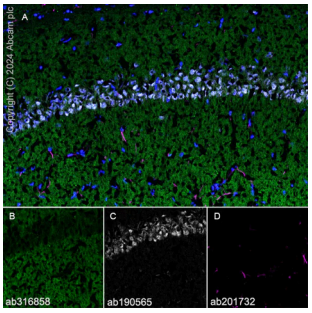


Flow Cytometry (Intracellular) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Rat primary neuron cells labelling SAP102 with ab316858 at 1/500 dilution (0.1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

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



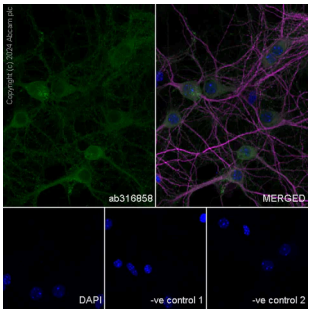
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Panel A: merged staining of anti-SAP102 (ab316858, green), anti-NeuN (ab190565, grey) and anti-GFAP (ab201732, magenta) on mouse hippocampus.
Panel B: anti-SAP102 stained on mouse hippocampus.
Panel C: anti-NeuN stained in neurons of mouse hippocampus.
Panel D: anti-GFAP stained in astrocytes of mouse hippocampus.
The nuclear counterstain was DAPI (Blue). The section was incubated with ab316858 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.



Immunocytochemistry/ Immunofluorescence - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

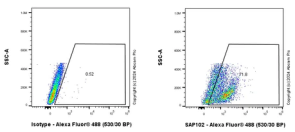
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Confocal image showing cytoplasmic staining in mouse primary neuron.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

ab11267 Anti-MAP2 mouse monoclonal antibody was used to counterstain at 1/500 (4ug/ml) dilution (Magenta). 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.

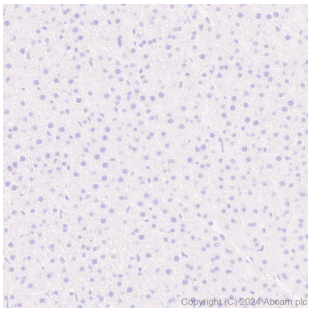


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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat liver using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

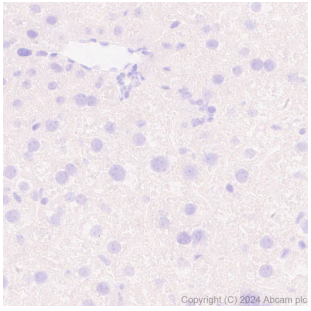
Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling SAP102 with ab316858 at 1/100 (4.98 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on rat liver.
The section was incubated with ab316858 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 (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse liver using rabbit Anti-SAP102 antibody

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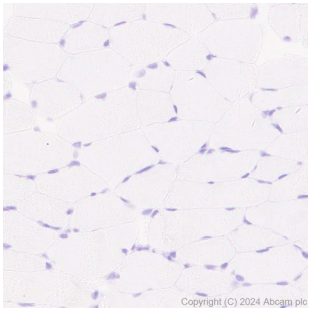
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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse skeletal muscle using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

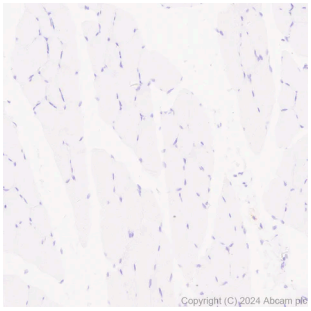
Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling SAP102 with ab316858 at 1/100 (4.98 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: No staining on mouse skeletal muscle.
The section was incubated with ab316858 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).

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat skeletal muscle using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

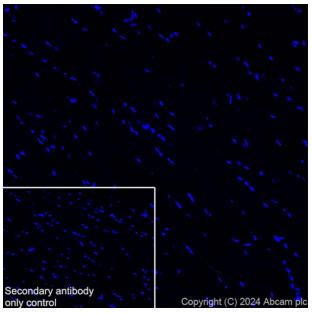
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Negative control: No staining on rat skeletal muscle.
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Immunohistochemistry (Frozen sections) - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

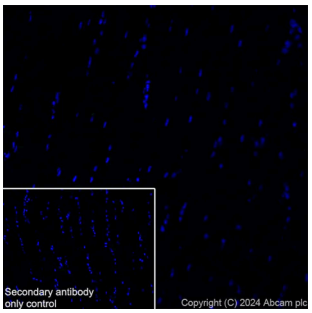
SAP102 Immunohistochemistry (Frozen sections) staining of Mouse skeletal muscle (fresh frozen) using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

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Negative control: confocal image showing no staining on mouse skeletal muscle. The nuclear counterstain was DAPI (Blue). The section was incubated with ab316858 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-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

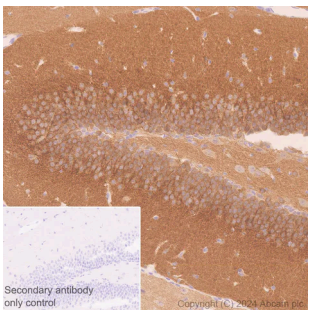
SAP102 Immunohistochemistry (Frozen sections) staining of Rat skeletal muscle (fresh frozen) using rabbit Anti-SAP102 antibody

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This data was developed using ab316858, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse hippocampus tissue labeling SAP102 with ab316858 at 1/100 (4.98 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™

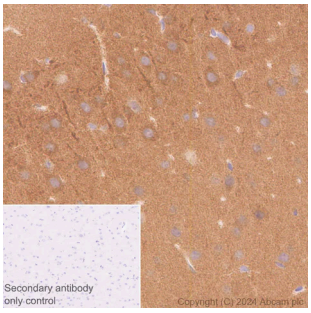
Polymer Refine Detection).

Positive staining on mouse hippocampus.
The section was incubated with ab316858 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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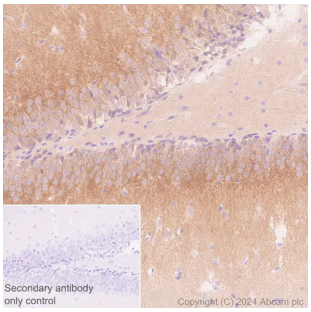
Immunohistochemical analysis of paraffin-embedded Mouse brain cortex tissue labeling SAP102 with ab316858 at 1/100 (4.98 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse brain cortex.
The section was incubated with ab316858 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).

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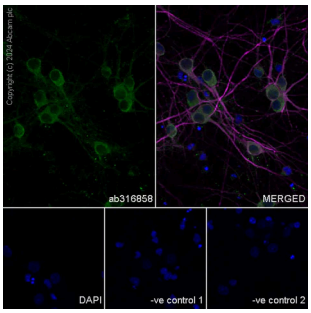
Immunohistochemical analysis of paraffin-embedded Rat hippocampus tissue labeling SAP102 with ab316858 at 1/100 (4.98 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat hippocampus (PMID: 8780649).
The section was incubated with ab316858 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).

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Immunocytochemistry/ Immunofluorescence - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

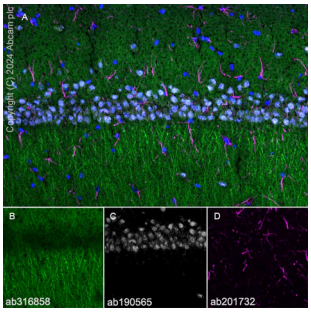
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Confocal image showing cytoplasmic staining in rat primary neuron.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.
Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8).

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

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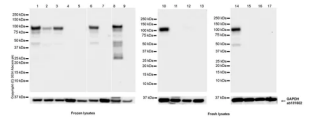
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Panel A: merged staining of anti-SAP102 (ab316858, green), anti-NeuN (ab190565, grey) and anti-GFAP (ab201732, magenta) on rat hippocampus.
Panel B: anti-SAP102 stained on rat hippocampus.
Panel C: anti-NeuN stained in neurons of rat hippocampus.
Panel D: anti-GFAP stained in astrocytes of rat hippocampus.
The nuclear counterstain was DAPI (Blue). The section was incubated with ab316858 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.



Western blot - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Western blot staining using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

Negative control: skeletal muscle (PMID: 8780649), heart (PMID: 8780649), liver (PMID: 8780649), spleen, testis.

In lanes 1-9, the lysate was stored at -80☒ prior to Western Blotting. The bands beneath the target band (100 kDa) are likey to be degradation products. In lanes 10-17, the lysates were freshly made and used for Western Blotting immediately to minimize protein degradation.

Lanes 1-7, 10-17 are applied with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/100000 and lanes 8-9 are applied with Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000.

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

All lanes:
Western blot - Anti-SAP102 antibody [EPR28704-52] (ab316858) at 1/1000 dilution

Lane 1:
Mouse hippocampus tissue lysate at 20 µg

Lane 2:
Mouse cerebellum tissue lysate at 20 µg

Lane 3:
Mouse brain tissue lysate at 20 µg

Lane 4:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 5:
Mouse heart tissue lysate at 20 µg

Lane 6:
Rat brain tissue lysate at 20 µg

Lane 7:
Rat skeletal muscle tissue lysate at 20 µg

Lane 8:
Human brain tissue lysate at 20 µg

Lane 9:
Human liver tissue lysate at 20 µg

Lane 10:
mouse brain tissue lysate at 20 µg

Lane 11:
mouse liver tissue lysate at 20 µg

Lane 12:
mouse testis tissue lysate at 20 µg

Lane 13:
mouse spleen tissue lysate at 20 µg

Lane 14:
rat brain tissue lysate at 20 µg

Lane 15:
rat liver tissue lysate at 20 µg

Lane 16:
rat testis tissue lysate at 20 µg

Lane 17:
rat spleen tissue lysate at 20 µg

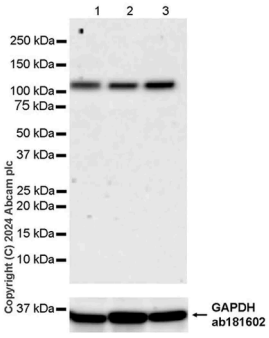
Secondary

Lanes 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, 14, 15, 16 and 17:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Lanes 8 - 9:
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Observed band size: 100 kDa, 36 kDa

Exposure time: 8s



Western blot - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Western blot staining using rabbit Anti-SAP102 antibody

This data was developed using ab316858, the same antibody clone in a different buffer formulation.

Lysates were freshly made and used for Western blotting immediately to minimize protein degradation.

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

All lanes:
Western blot - Anti-SAP102 antibody [EPR28704-52] (ab316858) at 1/1000 dilution

Lane 1:
Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate at 20 µg

Lane 2:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate at 20 µg

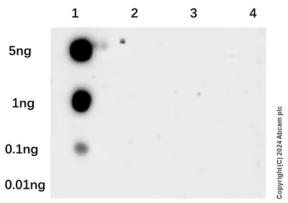
Lane 3:
SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Observed band size: 100 kDa, 36 kDa

Exposure time: 180s



Dot Blot - Anti-SAP102 antibody [EPR28704-52] - BSA and Azide free (ab316859)

SAP102 Dot Blot staining using rabbit Anti-SAP102 antibody

Dot blot analysis of SAP102 using ab316858 at 1:1000 (0.498 ug/ml) followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1:100,000 dilution.
Lane 1: His-tagged mouse SAP102 fragment
Lane 2: His-tagged mouse SAP97 fragment
Lane 3: His-tagged mouse PSD93 fragment
Lane 4: His-tagged mouse PSD95 fragment

This antibody does not cross-react with mouse SAP97, PSD93 and PSD95.

All lanes:
Dot Blot - Anti-SAP102 antibody [EPR28704-52] (ab316858) at 1/1000 dilution

Lane 1:
His-tagged mouse SAP102 fragment

Lane 2:
His-tagged mouse SAP97 fragment

Lane 3:
His-tagged mouse PSD93 fragment

Lane 4:
His-tagged mouse PSD95 fragment

Secondary

All lanes:
Dot Blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Exposure time: 136s

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