abcam

ab317606

Anti-SHANK2 antibody [EPR26549-331]

Recombinant | RabMAb | Advanced Validation | 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	EPR26549-331
Purification technique	Affinity purification Protein A
Specificity	Unsuitable for human IHC-P.
Concentration	0.521 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Recombinant fragment - Human
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Rat
Dilution info	1/100
Notes	-

Expected

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

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

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

mIHC

Tested

Species	Rat
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Expected

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

Not recommended

Species	Recombinant fragment - Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

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

IP

Not recommended

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

Target data

See full target information SHANK2

Function	Seems to be an adapter protein in the postsynaptic density (PSD) of excitatory synapses that interconnects receptors of the postsynaptic membrane including NMDA-type and metabotropic glutamate receptors, and the actin-based cytoskeleton. May play a role in the structural and functional organization of the dendritic spine and synaptic junction.

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	SHANK2 also known as SH3 and multiple ankyrin repeat domains protein 2 is a scaffold protein of around 189 kDa. It is mainly expressed in the central nervous system especially in postsynaptic densities of dendritic spines in neurons. SHANK2 interacts with several synaptic proteins to organize the synaptic complexes that are important for neurotransmission. It helps in maintaining the structural integrity and signaling functions of synapses.
Biological function summary	SHANK2 provides key links in postsynaptic density structures. It interacts with other proteins like neuroligins and NMDA receptors to form a complex signaling network. This complex is involved in synaptic signal transduction which is critical for neural plasticity and communication between neurons. Through its role in synapses SHANK2 influences the strength and modulation of synaptic transmission.
Pathways	SHANK2 plays a significant role in neurotransmitter signaling pathways such as glutamatergic signaling. It directly interacts with proteins like Homer and mGluR that are critical to these pathways. These interactions influence synaptic growth and plasticity impacting cognitive processes like learning and memory. The proper functioning of these pathways depends on SHANK2's stability and interactions with other postsynaptic proteins.
Associated diseases and disorders	Alterations in SHANK2 are linked to conditions like autism spectrum disorders and schizophrenia. Mutations in SHANK2 affect synaptic functions which are often seen in these neurological conditions. Additionally SHANK2 dysfunction relates to neuroligins and other postsynaptic proteins highlighting its involvement in the pathophysiology of these disorders. Understanding SHANK2's role can help in developing targeted therapies for such conditions.

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

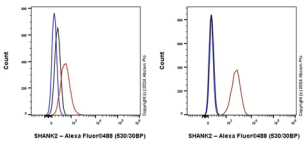
We do not recommend this combination. It is not covered by our product promise.

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.

21 product images

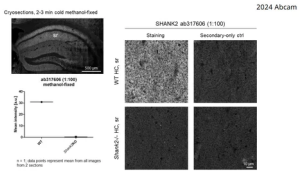


Flow Cytometry (Intracellular) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized T-47D (human ductal breast epithelial tumor epithelial cell) (Right) / 293T (human embryonic kidney epithelial cell) (Left) cells labelling SHANK2 with ab317606 at 1/500 dilution (0.1ug)/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.

Low expression: 293T(PMID: 32661924)

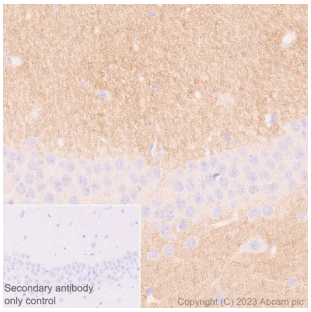


This image is courtesy of an anonymous customer review

Immunohistochemistry (Frozen sections) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Immunohistochemistry (Frozen sections) staining of Frozen mouse brain (tissue sections) using rabbit Anti-SHANK2 antibody

Immunohistochemical analysis of methanol-fixed, 0.3% Triton X-100 permeabilized frozen mouse brain tissue labeling SHANK2 with ab317606 at 1/100 dilution incubated for 48 hours at 4°C followed by an Alexa Fluor 647 AffiniPure Donkey Anti-Rabbit secondary at 1/200 dilution (Green). BSA was used as blocking agent for 2 hours • Concentration: 3% • Temperature: 20 °C.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

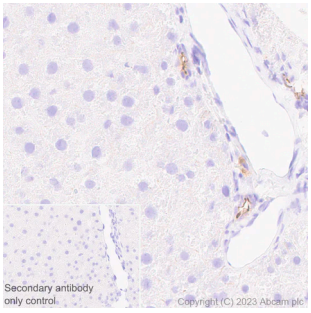
Immunohistochemical analysis of paraffin-embedded Mouse hippocampus tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on mouse hippocampus. The section was incubated with ab317606 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-SHANK2 antibody [EPR26549-331] (ab317606)

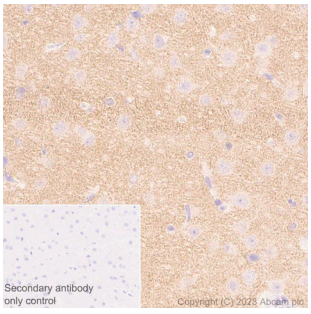
Immunohistochemical analysis of paraffin-embedded Rat liver tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on cholangiocytes of rat liver. The section was incubated with ab317606 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-SHANK2 antibody [EPR26549-331] (ab317606)

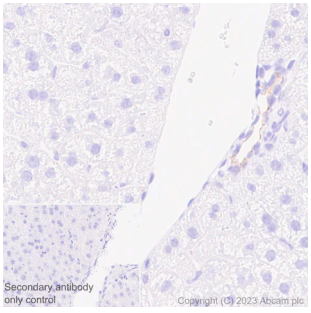
Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on rat cerebrum. The section was incubated with ab317606 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-SHANK2 antibody [EPR26549-331] (ab317606)

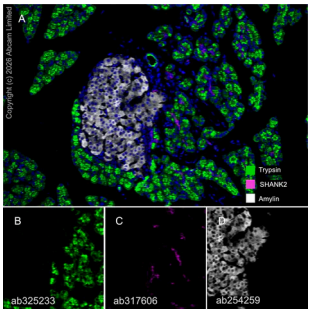
Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Positive staining on cholangiocytes of mouse liver. The section was incubated with ab317606 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



Multiplex immunohistochemistry - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Multiplex immunohistochemistry staining of Rat pancreas using rabbit Anti-SHANK2 antibody

Multiplex immunohistochemistry analysis of formalin/PFA-fixed paraffin-embedded rat pancreas tissue staining Trypsin with ab325233 at a 1/500 (0.98 µg/ml) dilution, ab317606 anti-SHANK2 used at a 1/100 (5.21 µg/ml) dilution and ab254259 anti-Amylin used at a 1/2000 (0.26 µg/ml) dilution.
Panel A: anti-Trypsin (green; Opal™690), anti-SHANK2 (magenta; Opal™520), anti-Amylin (gray; Opal™570) on rat pancreas.

Panel B: anti-Trypsin staining exocrine gland in rat pancreas.

Panel C: anti-SHANK2 staining pancreatic ducts in rat pancreas.

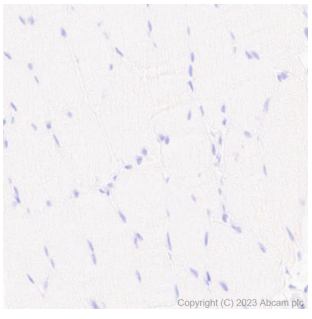
Panel D: anti-Amylin staining islet cells in rat pancreas.

Nuclear DNA was labeled with DAPI (shown in blue).

The section was incubated in three rounds of staining: in the order of ab325233, ab317606 and ab254259 for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

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-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Rat skeletal muscle using rabbit Anti-SHANK2 antibody

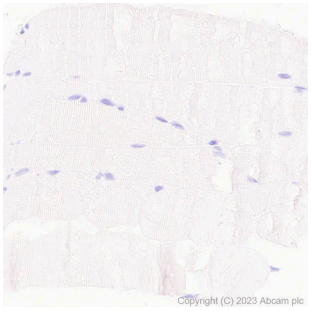
Immunohistochemical analysis of paraffin-embedded Rat skeletal muscle tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on rat skeletal muscle. The section was incubated with ab317606 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-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Mouse skeletal muscle using rabbit Anti-SHANK2 antibody

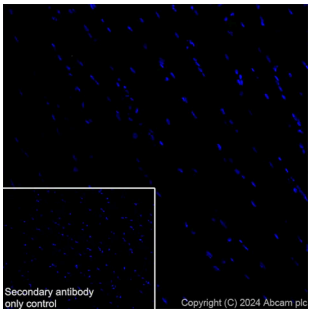
Immunohistochemical analysis of paraffin-embedded Mouse skeletal muscle tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution, followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Negative control: no staining on mouse skeletal muscle. The section was incubated with ab317606 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



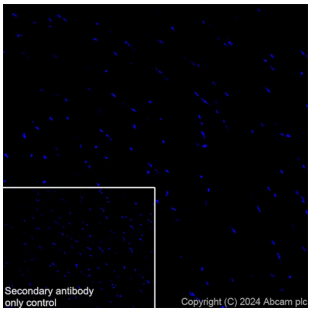
Immunohistochemistry (Frozen sections) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Immunohistochemistry (Frozen sections) staining of Rat skeletal muscle (fresh frozen) using rabbit Anti-SHANK2 antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat skeletal muscle (fresh frozen) tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green).

Negative control: confocal image showing no staining on rat skeletal muscle. The nuclear counterstain was DAPI (Blue). The section was incubated with ab317606 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.



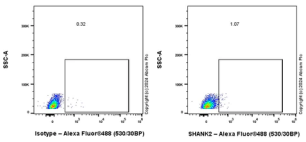
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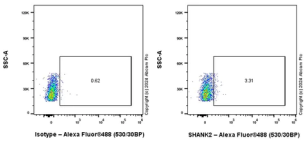
Flow Cytometry (Intracellular) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Flow Cytometry (Intracellular) staining of Rat spleen cell using rabbit Anti-SHANK2 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Rat spleen cell cells labelling SHANK2 with ab317606 at 1/500 dilution (0.1ug)/right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left 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.

Negative control: rat spleen cell.



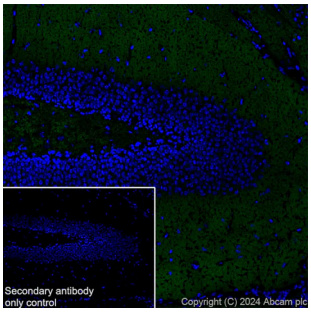
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SHANK2 Flow Cytometry (Intracellular) staining of Mouse spleen cell using rabbit Anti-SHANK2 antibody

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Negative control: mouse spleen cell.

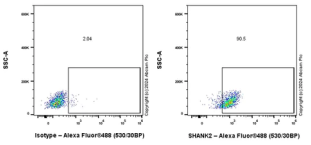


Immunohistochemistry (Frozen sections) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse hippocampus (fresh frozen) tissue labeling SHANK2 with ab317606 at 1/100 (5.21 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 2 ug/mL dilution (Green).

Confocal image showing positive staining on mouse hippocampus. The nuclear counterstain was DAPI (Blue). The section was incubated with ab317606 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).

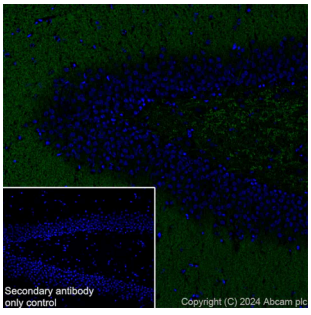
Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 2 ug/mL dilution.



Flow Cytometry (Intracellular) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Rat primary neuron cells labelling SHANK2 with ab317606 at 1/500 dilution (0.1ug)/right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left 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.

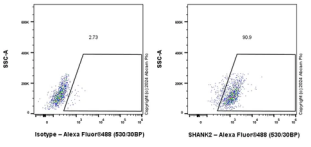


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Confocal image showing positive staining on rat hippocampus. The nuclear counterstain was DAPI (Blue). The section was incubated with ab317606 for 60 mins at room temperature. The section was then mounted using Fluoromount®.The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

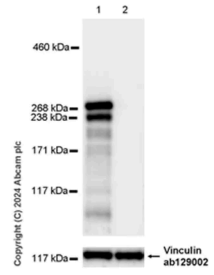
Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbedat 1/1000 2 ug/mL dilution.



Flow Cytometry (Intracellular) - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse primary neuron cells labelling SHANK2 with ab317606 at 1/500 dilution (0.1ug)/right (Red) compared with a Rabbit monoclonal IgG (ab172730) / Left 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.



Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Western blot staining using rabbit Anti-SHANK2 antibody

Low expression: 293T (PMID:32661924).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:29572432). The bands beneath the target band (180-270 kDa) are likely to be degraded target fragments.

In Western blot, Anti-Vinculin antibody [EPR8185] (ab129002) staining at 1/10000 dilution.

All lanes:
Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606) at 1/1000 dilution

Lane 1:
T-47D (human ductal breast epithelial tumor epithelial cell) whole cell lysate at 20 µg

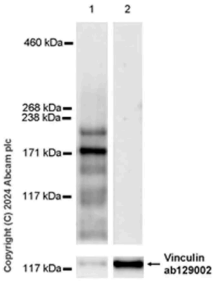
Lane 2:
293T (human embryonic kidney epithelial cell) whole cell lysate at 20 µg

Secondary

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

Observed band size: 180-270 kDa, 124 kDa

Exposure time: 26s



Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Western blot staining using rabbit Anti-SHANK2 antibody

Negative control: skeletal muscle (PMID: 10506216; PMID: 22346768).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:29572432). The bands beneath the target band (180-200 kDa) are likely to be degraded target fragments.

In Western blot, Anti-Vinculin antibody [EPR8185] (ab129002) staining at 1/10000 dilution.

All lanes:
Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606) at 1/1000 dilution

Lane 1:
Human hippocampus tissue lysate at 20 µg

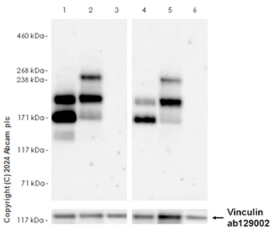
Lane 2:
Human skeletal muscle tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/200000 dilution

Observed band size: 200 kDa, 180 kDa, 124 kDa

Exposure time: 180s



Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Western blot staining using rabbit Anti-SHANK2 antibody

Negative control: skeletal muscle (PMID: 10506216; PMID: 22346768).

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID:29572432). The bands beneath the target band (180-270 kDa) are likely to be degraded target fragments.

In Western blot, Anti-Vinculin antibody [EPR8185] (ab129002) staining at 1/10000 dilution.

All lanes:
Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606) 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 skeletal muscle tissue lysate at 20 µg

Lane 4:
Rat hippocampus tissue lysate at 20 µg

Lane 5:
Rat cerebellum tissue lysate at 20 µg

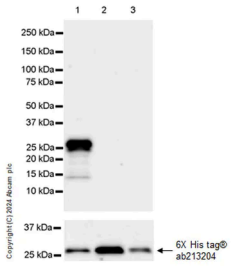
Lane 6:
Rat skeletal muscle tissue lysate at 20 µg

Secondary

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

Observed band size: 180-270 kDa, 180 kDa, 124 kDa

Exposure time: 180s



Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606)

SHANK2 Western blot staining using rabbit Anti-SHANK2 antibody

This antibody does not cross-react with human SHANK1 and SHANK3.

In Western blot, Anti-6X His tag® antibody [EPR20547] - ChIP Grade (ab213204) staining at 1/5000 dilution.

All lanes:
Western blot - Anti-SHANK2 antibody [EPR26549-331] (ab317606) at 1/1000 dilution

Lane 1:

His-tagged human SHANK2 recombinant fragment at 10 ng

Lane 2:
His-tagged human SHANK1 recombinant fragment at 10 ng

Lane 3:
His-tagged human SHANK3 recombinant fragment at 10 ng

Secondary

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

Observed band size: 26 kDa

Exposure time: 70s

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