abcam

ab289712

Anti-DNAJC6 antibody [EPR25332-124] - 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	EPR25332-124
Purification technique	Affinity purification Protein A
Concentration	0.999 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse, Rat
Dilution info	-
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-

Notes	-

Expected

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

ICC/IF

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

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

Target data

See full target information DNAJC6

Function	May act as a protein phosphatase and/or a lipid phosphatase. Co-chaperone that recruits HSPA8/HSC70 to clathrin-coated vesicles (CCVs) and promotes the ATP-dependent dissociation of clathrin from CCVs and participates in clathrin-mediated endocytosis of synaptic vesicles and their recycling and also in intracellular trafficking (PubMed:18489706). Firstly, binds tightly to the clathrin cages, at a ratio of one DNAJC6 per clathrin triskelion. The HSPA8:ATP complex then binds to the clathrin-auxilin cage, initially at a ratio of one HSPA8 per triskelion leading to ATP hydrolysis stimulation and causing a conformational change in the HSPA8. This cycle is repeated three times to drive to a complex containing the clathrin-auxilin cage associated to three HSPA8:ADP complex. The ATP hydrolysis of the third HSPA8:ATP complex leads to a concerted dismantling of the cage into component triskelia. Then, dissociates from the released triskelia and be recycled to initiate another cycle of HSPA8's recruitment. Also acts during the early steps of clathrin-coated vesicle (CCV) formation through its interaction with the GTP bound form of DNM1 (By similarity).

Storage

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

Notes

ab289712 is the carrier-free version of ab289711

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.

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.

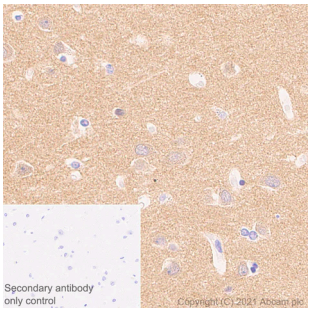
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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15 product images

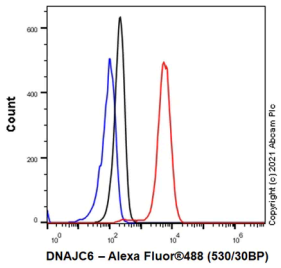


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human brain tissue labelling DNAJC6 with ab289711 at 1/4000(0.114ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human cerebrum. The section was incubated with ab289711 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).

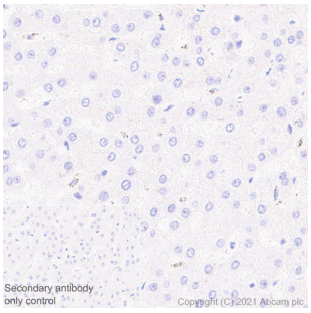
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Flow Cytometry (Intracellular) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized K-562 (human chronic myelogenous leukemia lymphoblast cell line) cells labeling DNAJC6 with ab289711 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081), at 1/2000 dilution was used as the secondary antibody.

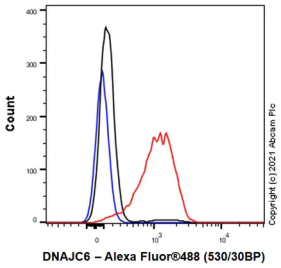


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling DNAJC6 with ab289711 at 1/4000(0.114ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). **Negative control:** no staining on human liver (PMID: 25446072). The section was incubated with ab289711 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).

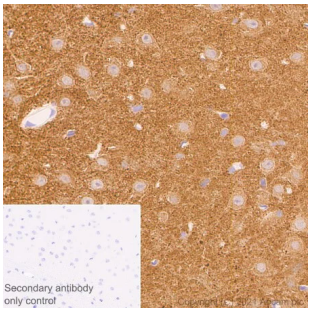
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Flow Cytometry (Intracellular) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Flow Cytometry (Intracellular) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized U-87 MG (Human glioblastoma-astrocytoma epithelial cell line) cells labeling DNAJC6 with ab289711 at 1/500 dilution (Red) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081), at 1/2000 dilution was used as the secondary antibody.

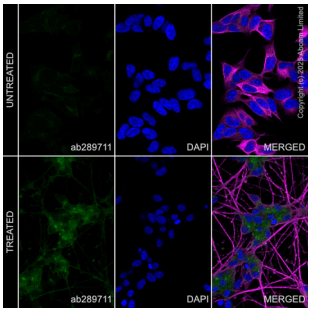


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Mouse brain tissue labelling DNAJC6 with ab289711 at 1/4000(0.114ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on mouse cerebrum. The section was incubated with ab289711 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 with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

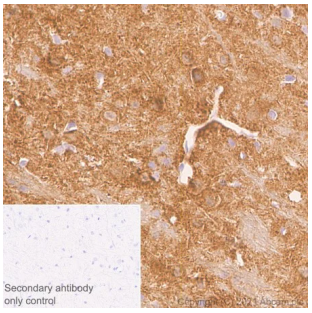


Immunocytochemistry/ Immunofluorescence - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-DNAJC6 antibody

This image was produced using ab289711, the same clone but in a different formulation. Immunofluorescent analysis of 4% Paraformaldehyde fixed 0.1% Triton X-100 permeabilized SH-SY5Y (human neuroblastoma epithelial cell) Differentiated SH-SY5Y labelling DNAJC6 with ab289711 at 1/200 (2.275 µg/ml) followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody as secondary at 1/1000 (2 µg/ml) dilution. ab78078 Anti-beta III Tubulin mouse monoclonal antibody - Neuronal Marker was used as a primary target counterstain used at 1/200 (2.5 µg/ml) along with ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) used at 1/1000 (2µg/ml) as secondary.

Confocal image showing increased cytoplasmic staining in differentiated SH-SY5Y cells (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

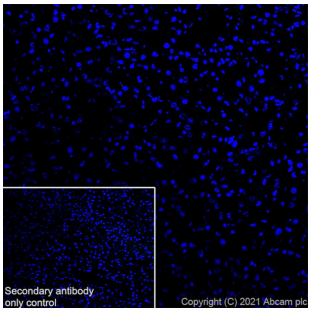


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded Rat brain tissue labelling DNAJC6 with ab289711 at 1/4000(0.114ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on rat cerebrum. The section was incubated with ab289711 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 with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

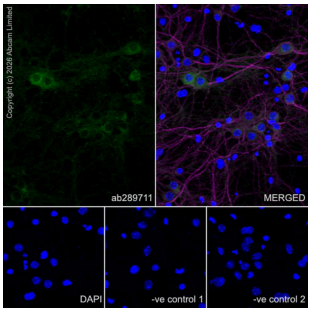


Immunohistochemistry (Frozen sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat liver (fresh) tissue labelling DNAJC6 with ab289711 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution (Green). **Negative control** (PMID: 23211418). No staining on rat liver. The nuclear conterstain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

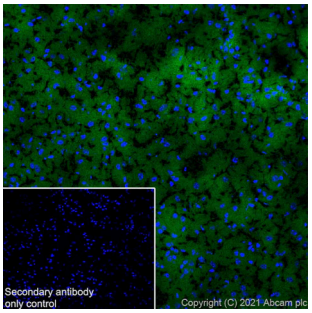
DNAJC6 Immunocytochemistry/ Immunofluorescence staining of mouse primary neural/glia cell using rabbit Anti-DNAJC6 antibody

This image was produced using ab289711, the same clone but in a different formulation.
Immunofluorescent analysis of 4% Paraformaldehyde fixed 0.1% Triton X-100 permeabilized mouse primary neural/glia cell labelling DNAJC6 with ab289711 at 1/500 (0.91 µg/ml) followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody as secondary at 1/1000 (2 µg/ml) dilution. ab11267 Anti-MAP2 mouse monoclonal antibody was used as a primary target counterstain used at 1/500 (4µg/ml) along with ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) used at 1/1000 (2µg/ml) as secondary.

Confocal image showing cytoplasmic staining in mouse primary neuron (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.

-ve control 1: ab289711 at 1/500 with ab150120 at 1/1000.

-ve control 2: ab11267 at 1/500 with ab150081 at 1/1000.

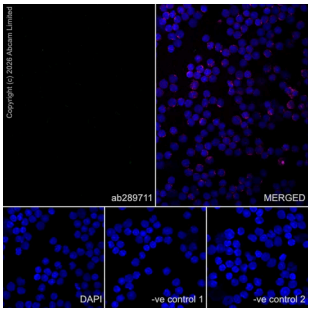


Immunohistochemistry (Frozen sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse cortex (fresh) tissue labelling DNAJC6 with ab289711 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution (Green). Positive staining on mouse cortex. The nuclear conterstain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

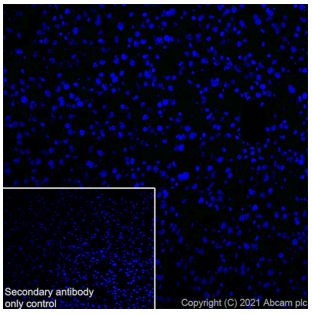
DNAJC6 Immunocytochemistry/ Immunofluorescence staining of mouse splenocytes using rabbit Anti-DNAJC6 antibody

This image was produced using ab289711, the same clone but in a different formulation.
Immunofluorescent analysis of 4% Paraformaldehyde fixed 0.1% Triton X-100 permeabilized mouse splenocytes labelling DNAJC6 with ab289711 at 1/500 (0.91 µg/ml) followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody as secondary at 1/1000 (2 µg/ml) dilution. ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used as a primary target counterstain used at 1/1000 (1µg/ml) along with ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) used at 1/1000 (2µg/ml) as secondary.

Negative control: Confocal image showing no staining in mouse splenocytes (shown in green). The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

-ve control 1: ab289711 at 1/500 with ab150120 at 1/1000.

-ve control 2: ab7291 at 1/1000 with ab150081 at 1/1000.

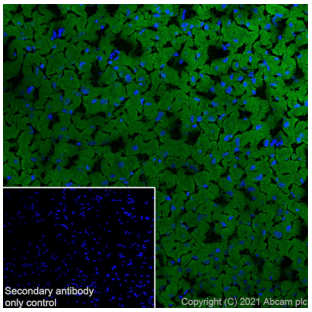


Immunohistochemistry (Frozen sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse liver (fresh) tissue labelling DNAJC6 with ab289711 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution (Green). **Negative control** (PMID: 23211418). No staining on mouse liver. The nuclear conterstain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution.

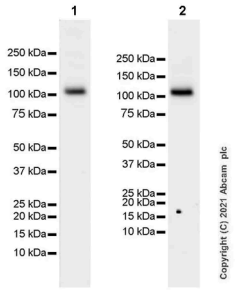


Immunohistochemistry (Frozen sections) - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat cortex (fresh) tissue labelling DNAJC6 with ab289711 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution (Green). Positive staining on rat cortex. The nuclear conterstain is DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) secondary antibody at 1/1000 dilution.



Western blot - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Western blot staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Fresh lysates were used in this WB.
The molecular weight observed is consistent with what has been described in the literature (PMID: 1973169).

5% NFDM/TBST was used as a blocking and diluting buffer.

All lanes:
Western blot - Anti-DNAJC6 antibody [EPR25332-124] (ab289711) at 1/1000 dilution

Lane 1:
U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate at 10 µg

Lane 2:
K562 (human chronic myelogenous leukemia lymphoblast), whole cell lysate at 10 µg

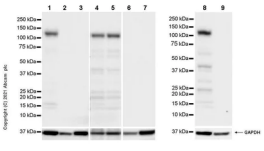
Secondary

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

Predicted band size: 100 kDa

Observed band size: 110 kDa

Exposure time: 48s



Western blot - Anti-DNAJC6 antibody [EPR25332-124] - BSA and Azide free (ab289712)

DNAJC6 Western blot staining using rabbit Anti-DNAJC6 antibody

This data was developed using ab289711, the same antibody clone in a different buffer formulation.
Negative control: Liver, Skeletal muscle (PMID: 23211418)
The molecular weight observed is consistent with what has been described in the literature (PMID: 1973169)

Exposure times:

Lane 1-7: 7.75 seconds
Lane 8-9: 37 seconds

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

All lanes:
Western blot - Anti-DNAJC6 antibody [EPR25332-124] (ab289711) at 1/1000 dilution

Lane 1:
Human spinal cord tissue lysate at 20 µg

Lane 2:
Human liver tissue lysate at 20 µg

Lane 3:
Human skeletal muscle tissue lysate at 20 µg

Lane 4:
Mouse cerebral cortex tissue lysate at 20 µg

Lane 5:
Mouse brain tissue lysate at 20 µg

Lane 6:
Mouse liver tissue lysate at 20 µg

Lane 7:
Mouse skeletal muscle tissue lysate at 20 µg

Lane 8:
Rat brain tissue lysate at 20 µg

Lane 9:
Rat liver tissue lysate at 20 µg

Secondary

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

Predicted band size: 100 kDa

Observed band size: 110 kDa

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