abcam

ab259867

Anti-DNAJC5B antibody [EPR24152-62]

Recombinant | RabMAb | 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	EPR24152-62
Purification technique	Affinity purification Protein A
Concentration	0.558 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Expected

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

Flow Cyt

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

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

Not recommended

Species	Rat
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Species	Rat
Dilution info	1/100
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Species	Human
Dilution info	1/100
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

IHC-P

Tested

Species	Mouse
Dilution info	1/300

Notes	-

Species	Rat
Dilution info	1/300
Notes	-

Species	Human
Dilution info	1/300
Notes	-

Target data

See full target information DNAJC5

Function	Acts as a general chaperone in regulated exocytosis (By similarity). Acts as a co-chaperone for the SNARE protein SNAP-25 (By similarity). Involved in the calcium-mediated control of a late stage of exocytosis (By similarity). May have an important role in presynaptic function. May be involved in calcium-dependent neurotransmitter release at nerve endings (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.

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

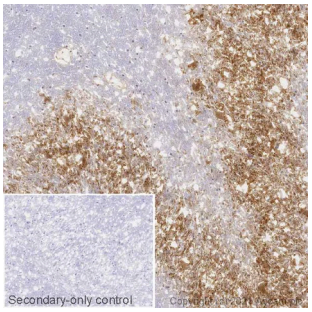
We do not recommend this combination. It is not covered by our product promise.

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.

10 product images

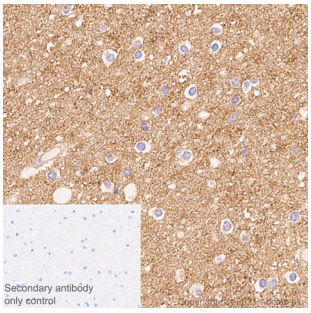


Immunohistochemistry (Frozen sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5B Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC5B antibody

IHC image of DNAJC5A+5B staining in a section of frozen normal human cerebellum* performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab259836, 0.5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and

mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.
For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre

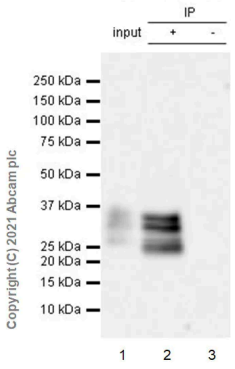


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5B Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-DNAJC5B antibody

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labelling DNAJC5A+5B with ab259867 at 1/300 (558.0 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Cytoplasmic staining on human cerebrum. The section was incubated with ab259867 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

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



Immunoprecipitation - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5A+5B was immunoprecipitated from 0.35 mg Human cerebellum tissue lysate 10 ug with ab259867 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259867 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: Human cerebellum tissue lysate 10 ug

Lane 2: ab259867 IP in Human cerebellum tissue lysate

Lane 3: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated :Rabbit monoclonal IgG (ab172730) instead of ab259867 in human cerebellum tissue lysate

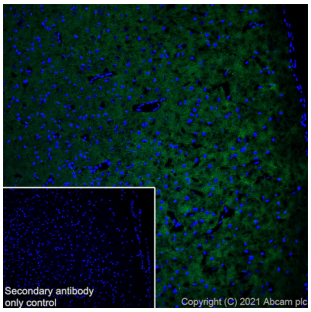
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 7.5 seconds

All lanes:
Immunoprecipitation - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

Predicted band size: 23 kDa

Observed band size: 22-30 kDa

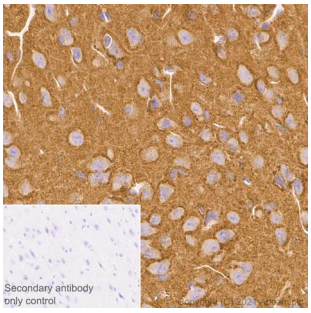


Immunohistochemistry (Frozen sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5B Immunohistochemistry (Frozen sections) staining using rabbit Anti-DNAJC5B antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat cerebral cortex tissue labeling DNAJC5A+5B with ab259867 at 1/100 (5.58 ug/ml) dilution followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Cytoplasmic staining on rat cerebral cortex is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488)at 1/1000 dilution.

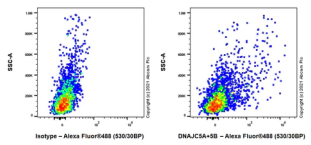
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labelling DNAJC5A+5B with ab259867 at 1/300 (558.0 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Cytoplasmic staining on mouse cerebrum. The section was incubated with ab259867 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

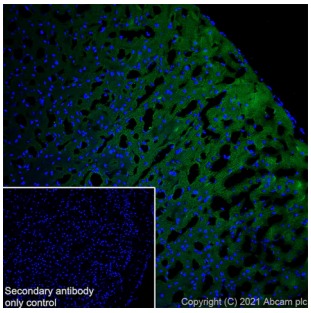
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Flow Cytometry - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5B Flow Cytometry staining using rabbit Anti-DNAJC5B antibody

Flow cytometric analysis of Mouse primary neuron cells cells labelling DNAJC5A+5B with ab259867 at 1/50 dilution (1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

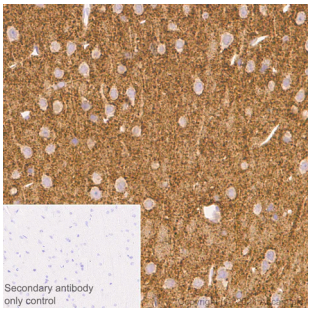


Immunohistochemistry (Frozen sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

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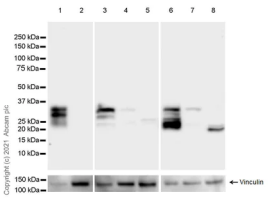


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

DNAJC5B Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-DNAJC5B antibody

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labelling DNAJC5A+5B with ab259867 at 1/300 (558.0 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Cytoplasmic staining on rat cerebrum. The section was incubated with ab259867 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 Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).

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



Western blot - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
DNAJC5A has non-palmitoylated and palmitoylated forms as described in the literature (PMID: 32042150).

Low expression: kidney (PMID: 20499929).

Exposure time: 26 seconds

All lanes:
Western blot - Anti-DNAJC5B antibody [EPR24152-62] (ab259867) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human kidney tissue lysate at 20 µg

Lane 3:
Mouse brain tissue lysate at 20 µg

Lane 4:

Mouse kidney tissue lysate at 20 µg

Lane 5:
Mouse testis tissue lysate at 20 µg

Lane 6:
Rat brain tissue lysate at 20 µg

Lane 7:
Rat kidney tissue lysate at 20 µg

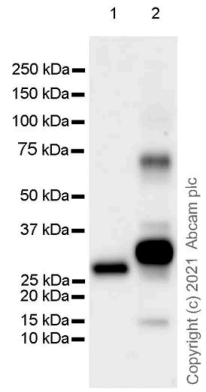
Lane 8:
Rat testis tissue lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 23 kDa

Observed band size: 22-30 kDa



Western blot - Anti-DNAJC5B antibody [EPR24152-62] (ab259867)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
This antibody reacts with both DNAJC5A and DNAJC5B.

Exposure time: 37 seconds

All lanes:
Western blot - Anti-DNAJC5B antibody [EPR24152-62] (ab259867) at 1/1000 dilution

Lane 1:
His-tagged human DNAJC5/CSP recombinant protein (aa 2-100) at 0.01 µg

Lane 2:
Myc/DDK-tagged human DNAJC5B recombinant protein (aa 1-199) at 0.02 µg

Secondary

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

Predicted band size: 23 kDa

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