abcam

ab279649

Anti-BLBP antibody [EPR24033-13]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	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	EPR24033-13
Purification technique	Affinity purification Protein A
Concentration	0.525 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	1/250
Notes	-

Species	Rat

Dilution info	1/250
Notes	-

Expected

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

Not recommended

Species	Human
Dilution info	-
Notes	-

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Expected

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

Not recommended

Species	Human
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	-

Expected

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

IHC-Fr

Tested

Species	Mouse
Dilution info	1/50
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20)

Species	Nothobranchius furzeri
Dilution info	1/100
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Human

Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

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

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Expected

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

IHC-P

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human

Dilution info	1/500
Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Expected

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

Target data

See full target information FABP7

Function	B-FABP could be involved in the transport of a so far unknown hydrophobic ligand with potential morphogenic activity during CNS development. It is required for the establishment of the radial glial fiber system in developing brain, a system that is necessary for the migration of immature neurons to establish cortical layers (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

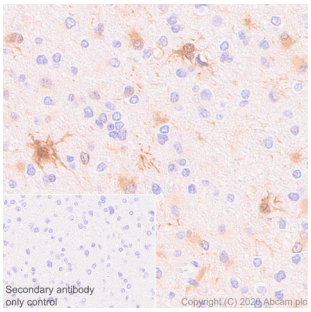
We do not recommend this combination. It is not covered by our product promise.

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.

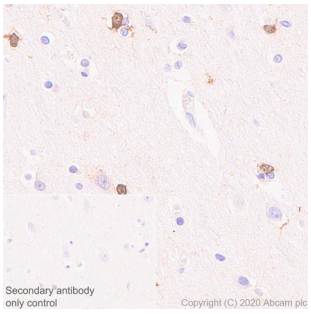
16 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

Immunohistochemical analysis of paraffin-embedded human astrocytoma labeling BLBP with ab279649 at 1/500 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human astrocytoma (PMID: 16623952). The section was incubated with ab279649 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) was used.

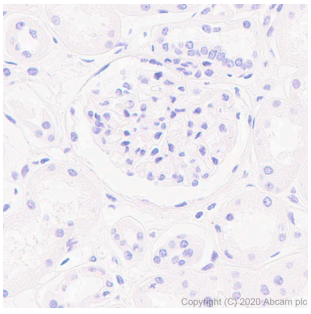
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling BLBP with ab279649 at 1/500 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on human cerebrum (PMID: 16623952). The section was incubated with ab279649 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 ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

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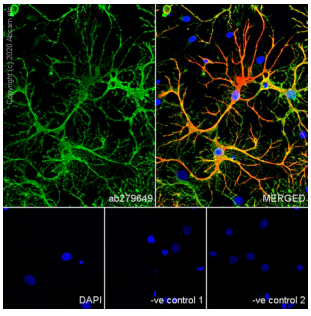


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling BLBP with ab279649 at 1/500 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with ab279649 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Negative control: no staining on human kidney (PMID: 9375786).

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



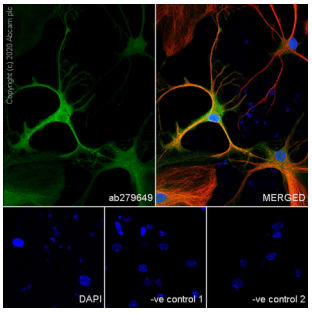
Immunocytochemistry/ Immunofluorescence - Anti-BLBP antibody [EPR24033-13] (ab279649)

BLBP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-BLBP antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized rat primary neural/glia cells labelling BLBP with ab279649 at 1/250 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image

showing positive staining in rat primary gliocyte. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection is observed. Anti-Glial Fibrillary Acidic Protein (GFAP) mouse monoclonal antibody was used to counterstain tubulin at 1/100 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (Red). The nuclear counterstain was DAPI (Blue).
Negative control 1: ab279649 at a 1/250 dilution followed by ab150120 at a 1/1000 dilution.

Negative control 2: Anti-Glial Fibrillary Acidic Protein (GFAP) mouse monoclonal antibody at a 1/100 dilution followed by ab150077 at a 1/1000 dilution.

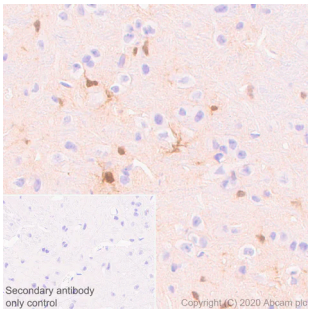


Immunocytochemistry/ Immunofluorescence - Anti-BLBP antibody [EPR24033-13] (ab279649)

BLBP Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-BLBP antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neural/glia cells labelling BLBP with ab279649 at 1/250 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing positive staining in mouse primary gliocyte. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection is observed. Anti-Glial Fibrillary Acidic Protein (GFAP) mouse monoclonal antibody was used to counterstain tubulin at 1/100 dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (Red). The nuclear counterstain was DAPI (Blue).
Negative control 1: ab279649 at a 1/250 dilution followed by ab150120 at a 1/1000 dilution.

Negative control 2: Anti-Glial Fibrillary Acidic Protein (GFAP) mouse monoclonal antibody at a 1/100 dilution followed by ab150077 at a 1/1000 dilution.

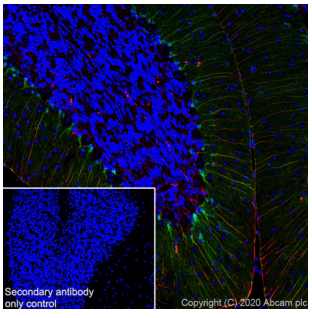


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling BLBP with ab279649 at 1/2000 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on mouse cerebrum. The section was incubated with ab279649 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) was used.

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



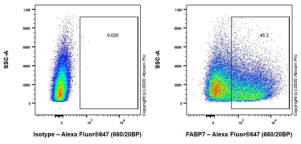
Immunohistochemistry (Frozen sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse cerebellum tissue labeling BLBP with ab279649 at 1/50 dilution followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on mouse

cerebellum, which partially co-stained with GFAP (Red) 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.

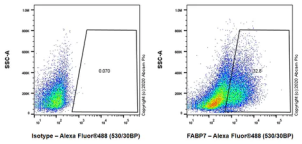
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).dilution.



Flow Cytometry (Intracellular) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

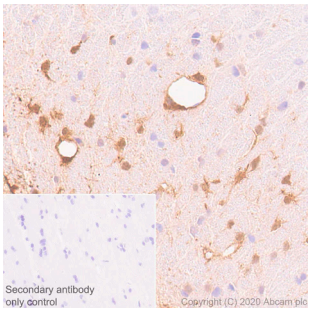
Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized mouse primary neural/glia cells labeling BLBP with ab279649 at 1/500 dilution (Right panel) compared with Rabbit monoclonal IgG Isotype Control (ab172730) (Left panel). Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized rat primary neural/glia cells labeling BLBP with ab279649 at 1/500 dilution (Right panel) compared with Rabbit monoclonal IgG Isotype Control (ab172730) (Left panel). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077 at 1/2000 dilution was used as the secondary antibody.

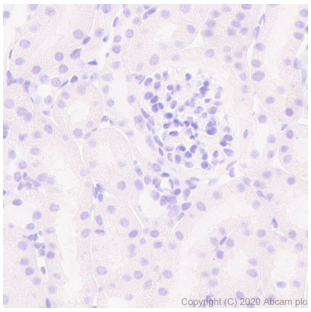


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling BLBP with ab279649 at 1/2000 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on rat cerebrum. The section was incubated with ab279649 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) was used.

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

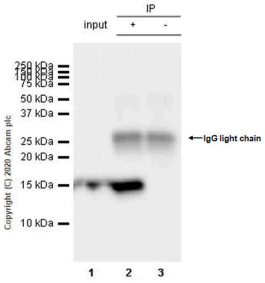


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

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

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling BLBP with ab279649 at 1/2000 dilution followed by ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with ab279649 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Negative control: no staining on mouse kidney.

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



Immunoprecipitation - Anti-BLBP antibody [EPR24033-13] (ab279649)

BLBP was immunoprecipitated from 0.35 mg mouse cerebellum tissue lysate 10 µg with ab279649 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab279649 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Mouse cerebellum tissue lysate 10 µg

Lane 2: ab279649 IP in mouse cerebellum tissue lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab279649 in mouse cerebellum tissue lysate

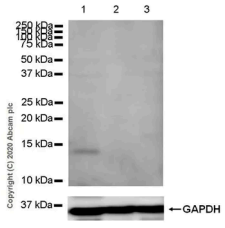
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 10 seconds.

All lanes:
Immunoprecipitation - Anti-BLBP antibody [EPR24033-13] (ab279649)

Predicted band size: 14 kDa

Observed band size: 15 kDa



Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649)

BLBP Western blot staining using rabbit Anti-BLBP antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Negative control: spleen, kidney (PMID: 16618771)

Exposure time: 10 seconds

All lanes:
Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human spleen tissue lysate at 20 µg

Lane 3:
Human kidney tissue lysate at 20 µg

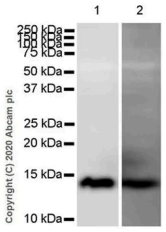
Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 14 kDa

Observed band size: 14 kDa

Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649)



Blocking and diluting buffer and concentration: 5% NFDM/TBST
Exposure times:

Lane 1: 3 seconds

Lane 2: 26 seconds

All lanes:
Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649) at 1/1000 dilution

Lane 1:
Rat brain cortex tissue lysate at 20 µg

Lane 2:
Rat cerebellum tissue lysate at 20 µg

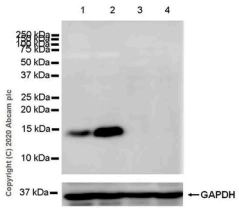
Secondary

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

Predicted band size: 14 kDa

Observed band size: 14 kDa

Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649)



BLBP Western blot staining using rabbit Anti-BLBP antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Negative control: spleen, kidney (PMID: 16618771)

Exposure time: 6 seconds

All lanes:
Western blot - Anti-BLBP antibody [EPR24033-13] (ab279649) at 1/1000 dilution

Lane 1:
Mouse brain tissue lysate at 20 µg

Lane 2:
Mouse cerebellum tissue lysate at 20 µg

Lane 3:
Mouse spleen tissue lysate at 20 µg

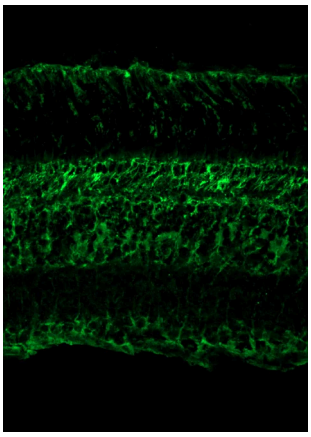
Lane 4:
Mouse kidney tissue lysate at 20 µg

Secondary

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

Predicted band size: 14 kDa

Observed band size: 14 kDa



This image is courtesy of a customer review submitted by Ryan Macdonald

Immunohistochemistry (Frozen sections) - Anti-BLBP antibody [EPR24033-13] (ab279649)

BLBP Immunohistochemistry (Frozen sections) staining of Nothobranchius furzeri Retina using rabbit Anti-BLBP antibody

Immunohistochemical analysis of PFA-fixed unpermeabilized frozen Nothobranchius furzeri Retina, 6 weeks old (fresh frozen) tissue labeling BLBP with ab279649 at 1/100 dilution for 16 hours at 4°C followed by Goat anti Rabbit Alexa Fluor® 488 at 1/1000 dilution (pseudocolored to cyan). 1% BSA used as blocking agent for 1 hour.
Antigen retrieval was used prior to antibody labelling. Slides were boiled in NaCit (pH=6.0) for 20 minutes and washed 3x PBS with Triton X (0.1%).

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