abcam

Product datasheet

Anti-MUPP1 antibody [EPR26317-59] ab302621

重组 RabMAb

13 图像

概述

产品名称	Anti-MUPP1抗体[EPR26317-59]
描述	兔单克隆抗体[EPR26317-59] to Mupp1
宿主	Rabbit
特异性	IHC application not suitable with human samples. ICC/IF application not suitable with human and rat samples. IP application not suitable with mouse samples.
经测试应用	**适用于:** IP, Flow Cyt (Intra), IHC-P, WB, IHC-Fr, ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: C6, Neuro-2a, U-87 MG, SH-SY5Y, PC-12, mIMCD3, whole cell lysates; human cerebellum, mouse brain, skeletal muscle, and testis tissue lysates; rat brain and skeletal muscle tissue lysates. IHC-P: mouse and rat choroid plexus FFPE tissue sections. IHC-Fr: mouse and rat choroid plexus fresh frozen tissue sections. ICC/IF: mIMCD3 cell line. Flow Cyt (Intra): A549 and mIMCD3 cells. IP: C6 whole cell lysate.
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid

存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR26317-59
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab302621于以下的经测试应用

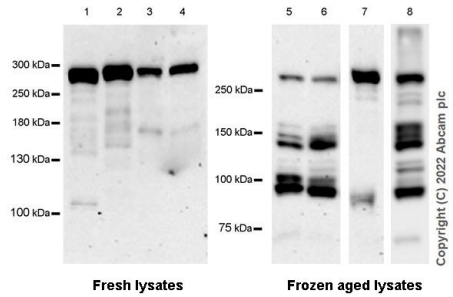
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IP		1/30.
Flow Cyt (Intra)		1/50.
IHC-P		1/800. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000. Detects a band of approximately 280 kDa (predicted molecular weight: 219 kDa).
IHC-Fr		1/50.
ICC/IF		1/50.

靶标

相关性	MUPP1 was first identified as a protein interacting with type 2C serotonin receptor. It acts as a scaffolding protein at tight junctions where it has been reported to interact with integral proteins, anchoring them to the F-actin cytoskeleten. It is also thought to be important in the osmotic stress response in kidney cells and has been shown to play a role in promoting G protein coupling to receptors.
细胞定位	Plasma membrane

图片



Western blot - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

All lanes : Anti-MUPP1 antibody [EPR26317-59] (ab302621) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor glial cell), whole cell fresh lysate at 20 µg
Lane 2 : Neuro-2a (mouse neuroblastoma neuroblast), whole cell fresh lysate at 20 µg
Lane 3 : U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell fresh lysate at 20 µg
Lane 4 : SH-SY5Y (human neuroblastoma epithelial cell), whole cell fresh lysate at 20 µg
Lane 5 : C6 (rat glial tumor glial cell), whole cell lysate at 40 µg
Lane 6 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate at 40 µg
Lane 7 : human cerebellum tissue lysate at 40 µg
Lane 8 : mIMCD3 (mouse inner medullary collecting duct epithelial cell), whole cell lysate at 40 µg

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

Predicted band size: 219 kDa
Observed band size: 280 kDa

Blocking / Diluting buffer and concentration: 5% NFDM/TBST

Exposure time:

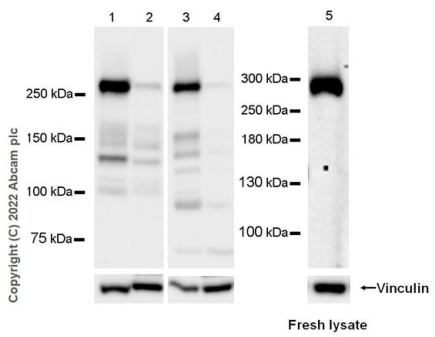
Lane 1-7: 3 minutes
Lane 8: 26 seconds

The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 12403818).

Lysates in lane1-4 were freshly made and used for Western blotting immediately to minimize protein degradation.

The bands beneath the target band are likely to be degraded target fragments.

Samples are non-boiled as boiling may cause protein aggregates.



Western blot - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

All lanes : Anti-MUPP1 antibody [EPR26317-59] (ab302621) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate at 40 µg
Lane 2 : Mouse skeletal muscle tissue lysate at 40 µg
Lane 3 : Rat brain tissue lysate at 40 µg
Lane 4 : Rat skeletal muscle tissue lysate at 40 µg
Lane 5 : Mouse testis tissue lysate at 20 µg

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

Predicted band size: 219 kDa
Observed band size: 280 kDa

Blocking / Diluting buffer and concentration: 5% NFDM/TBST

Exposure time:

Lane 1-4: 26 seconds
Lane 5: 3 minutes

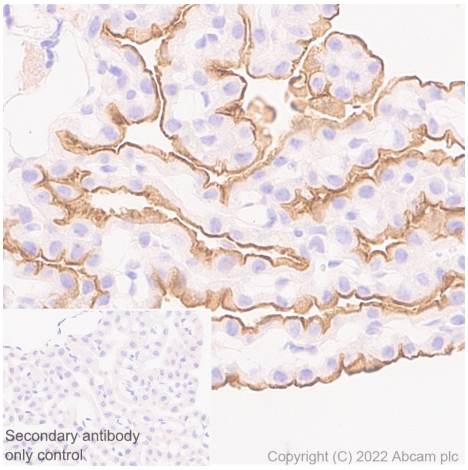
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 12403818).

Low expression: skeletal muscle (PMID: 12706259)

Lysate in lane 5 was freshly made and used for Western blotting immediately to minimize protein degradation.

The bands beneath the target band are likely to be degraded target fragments.

Samples are non-boiled as boiling may cause protein aggregates.

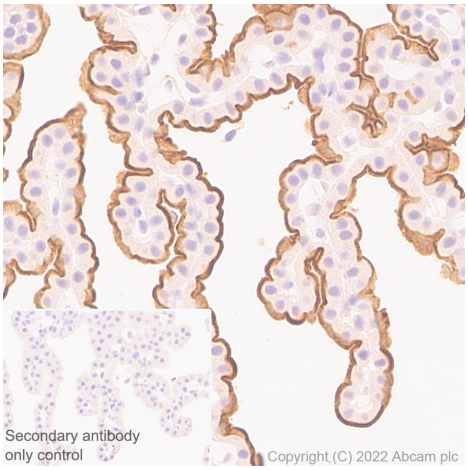


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of paraffin-embedded mouse choroid plexus tissue labeling MUPP1 with ab302621 at 1/800 (0.683 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Positive staining in mouse choroid plexus (PMID:30518636, PMID:12706259). The section was incubated with ab302621 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 Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

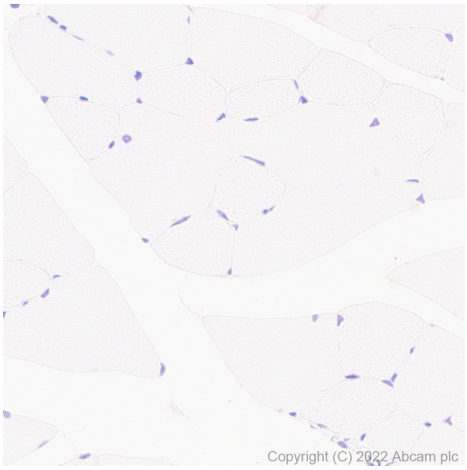


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of paraffin-embedded rat choroid plexus tissue labeling MUPP1 with ab302621 at 1/800 (0.683 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Positive staining in rat choroid plexus (PMID:30518636, PMID:12706259). The section was incubated with ab302621 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 Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

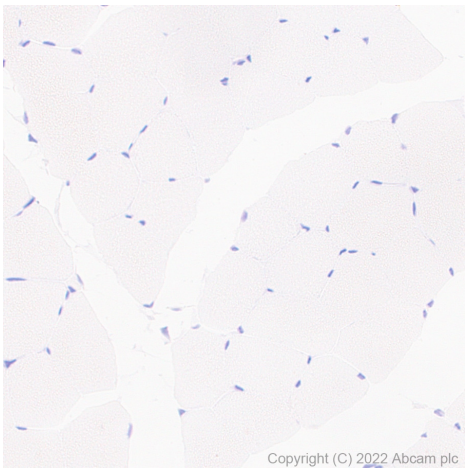


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue labeling MUPP1 with ab302621 at 1/800 (0.683 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Negative control: no staining in mouse skeletal muscle (PMID:12706259). The section was incubated with ab302621 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 Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

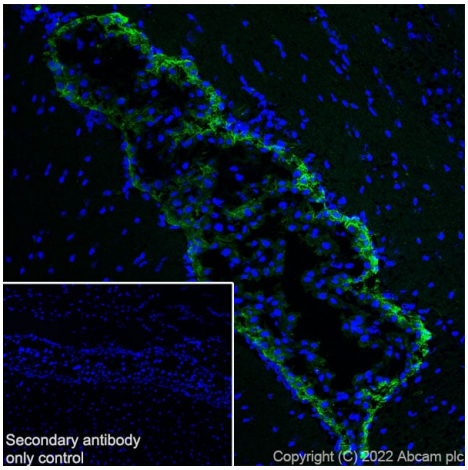


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue labeling MUPP1 with ab302621 at 1/800 (0.683 µg/ml) followed by a ready to use Leica DS9800 (Bond™ Polymer Refine Detection kit). Negative control: no staining in rat skeletal muscle (PMID:12706259). The section was incubated with ab302621 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 Leica DS9800 (Bond™ Polymer Refine Detection kit).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins

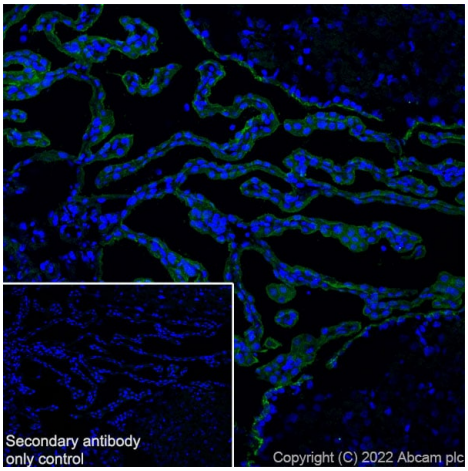


Immunohistochemistry (Frozen sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse choroid plexus tissue labeling MUPP1 with ab302621 at 1/50 (10.92 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution (Green). Positive staining on mouse choroid plexus is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.<\p>

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

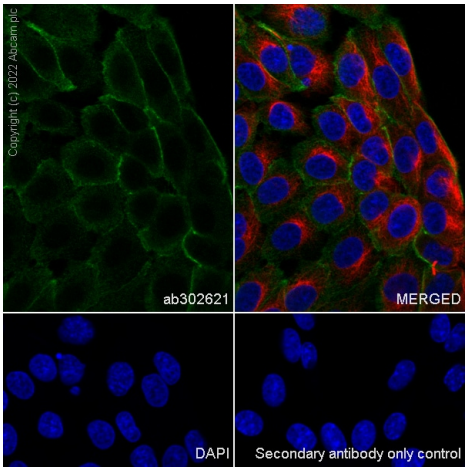


Immunohistochemistry (Frozen sections) - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat choroid plexus tissue labeling MUPP1 with ab302621 at 1/50 (10.92 µg/ml) dilution followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution (Green). Positive staining on rat choroid plexus is observed. The nuclear counterstain was DAPI (Blue).

Secondary antibody control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 µg/ml) dilution.<\p>

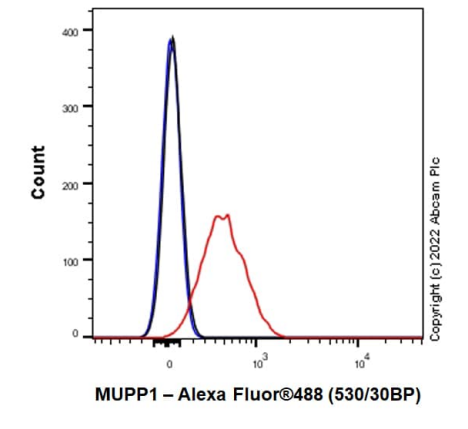
Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).



Immunocytochemistry/ Immunofluorescence - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

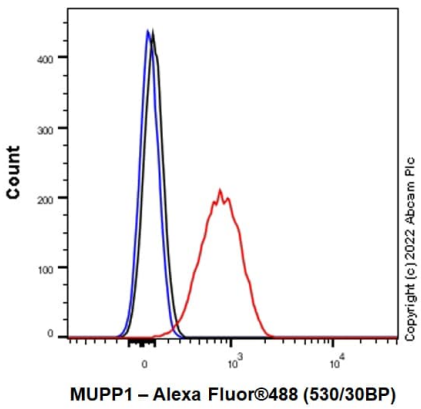
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mIMCD3 (mouse inner medullary collecting duct epithelial cell) cells labeling MUPP1 with AB302621 at 1/50 (10.92 µg/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 µg/ml) dilution (Green). Confocal image showing membranous and cytoplasmic staining in mIMCD3 cell line is observed. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5µg/ml) dilution (Red). 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 µg/ml) dilution.



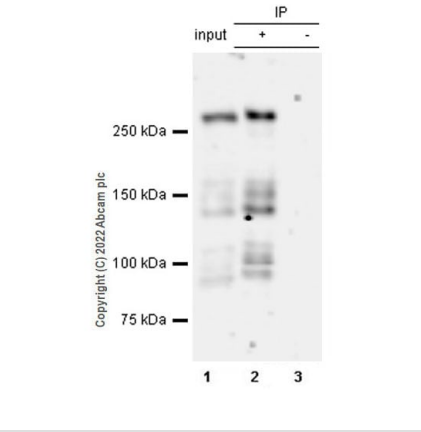
Flow Cytometry (Intracellular) - Anti-MUPP1 antibody [EPR26317-59] (ab302621)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized mIMCD3 (mouse inner medullary collecting duct epithelial cell) cells labeling MUPP1 with ab302621 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-MUPP1 antibody [EPR26317-59] (ab302621)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized A549 (human lung carcinoma epithelial cell) cells labeling MUPP1 with ab302621 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-MUPP1 antibody [EPR26317-59] (AB302621)

MUPP1 was immunoprecipitated from 0.35 mg C6 (rat glial tumor glial cell), whole cell lysate 10 µg with ab302621 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab302621 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: C6 (rat glial tumor glial cell), whole cell lysate 10 µg

Lane 2: ab302621 IP in C6 whole cell lysate

Lane 3:Rabbit monoclonal IgG (**ab172730**) instead of ab302621 in C6 whole cell lysate

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

Exposure time: 58 seconds

This blot was developed using a high sensitivity ECL substrate.The bands beneath the target band are likely to be degraded target fragments.

Anti-MUPP1 antibody [EPR26317-59] (AB302621)

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