

Product datasheet

Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] ab191887

Recombinant RabMAb

7 Images

Overview

Product name	Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869]
Description	Rabbit monoclonal [EPR18869] to GABARAPL1 + GABARAPL3
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant full length protein within Human GABARAPL1 aa 1 to the C-terminus. The exact sequence is proprietary. Database link: Q9H0R8
Positive control	WB: Human GABARAPL1 full length protein; Recombinant Human GABARAPL3 full length protein; Human fetal brain and fetal liver lysates; HeLa, HepG2, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Mouse and rat brain and kidney lysates. IP: HeLa whole cell lysate.

General notes

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18869
Isotype	IgG

Applications

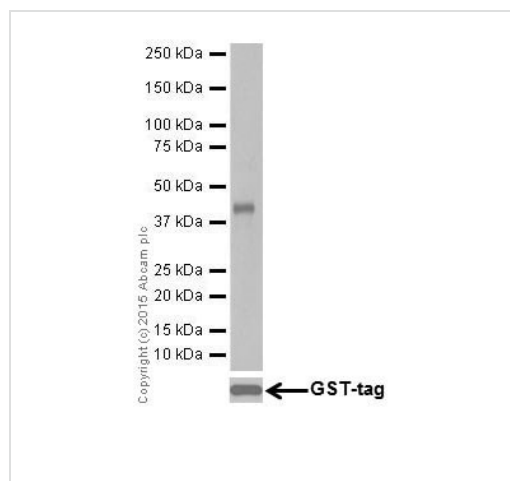
Our [Abpromise guarantee](#) covers the use of **ab191887** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 17 kDa (predicted molecular weight: 14 kDa).
IP		1/40.

Target

Relevance	GABARAPL1. Function: Ubiquitin-like modifier that increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor. Involved in formation of autophagosomal vacuoles. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation. GABARAPL3. Function: Ubiquitin-like modifier involved in autophagosome formation. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation
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Western blot - Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887) at 1/5000 dilution + Recombinant human GABARAPL1 full length protein at 0.01 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Predicted band size: 14 kDa

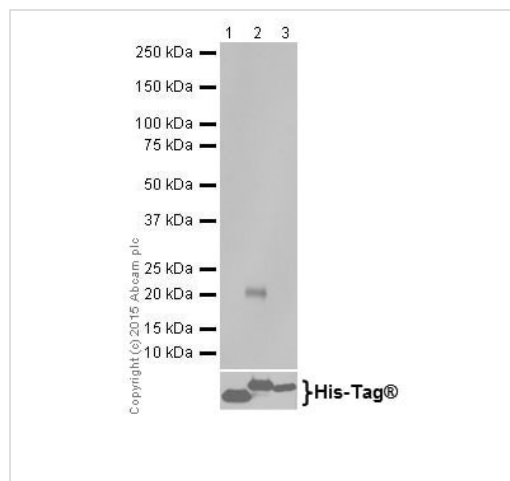
Observed band size: 43 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

In house recombinant Human GABARAPL1 is a GST-tagged full length protein (aa1-117).



Western blot - Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

All lanes : Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887) at 1/5000 dilution

Lane 1 : Recombinant Human GABARAPL2 full length protein

Lane 2 : Recombinant Human GABARAPL3 full length protein

Lane 3 : Recombinant Human GABARAP (O95166) full length protein

Lysates/proteins at 0.01 µg per lane.

Secondary

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

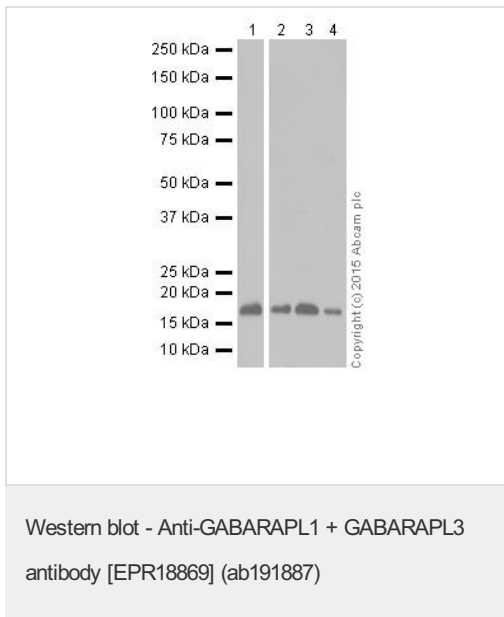
Predicted band size: 14 kDa

Observed band size: 17 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

All three recombinant Human full length proteins contain aa1-117 with an N-terminal His-Tag® and were made in-house.



All lanes : Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887) at 1/1000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : Human fetal liver lysate

Lane 3 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 4 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

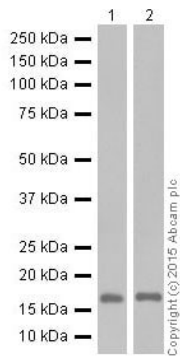
Predicted band size: 14 kDa

Observed band size: 17 kDa [why is the actual band size different from the predicted?](#)

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: Lane 1: 15 seconds; Lane 2,3 and 4: 30 seconds.

The molecular weight observed is consistent with what has been described in the literature (PMID: 16650615).



Western blot - Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

All lanes : Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Mouse kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

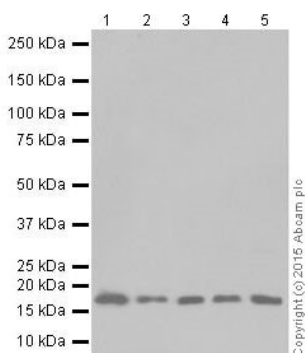
Predicted band size: 14 kDa

Observed band size: 17 kDa [why is the actual band size different from the predicted?](#)

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 5 seconds; Lane 2: 15 seconds.

The molecular weight observed is consistent with what has been described in the literature (PMID: 16650615).



Western blot - Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

All lanes : Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887) at 1/1000 dilution

Lane 1 : Rat brain lysate

Lane 2 : Rat kidney lysate

Lane 3 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 4 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 5 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

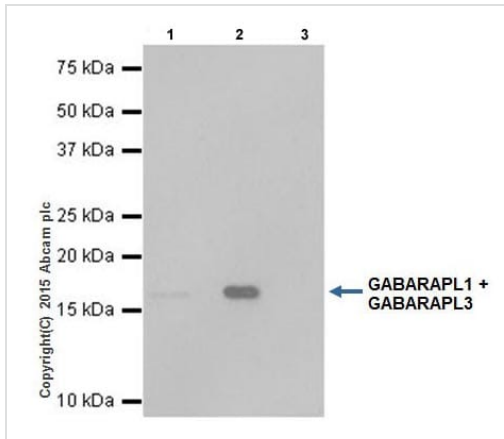
Predicted band size: 14 kDa

Observed band size: 17 kDa [why is the actual band size different from the predicted?](#)

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

The molecular weight observed is consistent with what has been described in the literature (PMID: 16650615).



Immunoprecipitation - Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

GABARAPL1 + GABARAPL3 was immunoprecipitated from 1 mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab191887 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab191887 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366), was used for detection at 1/10000 dilution.

Lane 1: HeLa whole cell lysate 10ug (Input).

Lane 2: ab191887 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab191887 in HeLa whole cell lysate.

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

Exposure time: 30 seconds.

Why choose a recombinant antibody?

<p>Research with confidence Consistent and reproducible results</p>	<p>Long-term and scalable supply Recombinant technology</p>
<p>Success from the first experiment Confirmed specificity</p>	<p>Ethical standards compliant Animal-free production</p>

Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] (ab191887)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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