

## Product datasheet

# Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869] ab191887

Recombinant RabMAb

7 Images

### Overview

<b>Product name</b>	Anti-GABARAPL1 + GABARAPL3 antibody [EPR18869]
<b>Description</b>	Rabbit monoclonal [EPR18869] to GABARAPL1 + GABARAPL3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Recombinant fragment
<b>Immunogen</b>	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	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.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number** EPR18869

**Isotype** IgG

## Applications

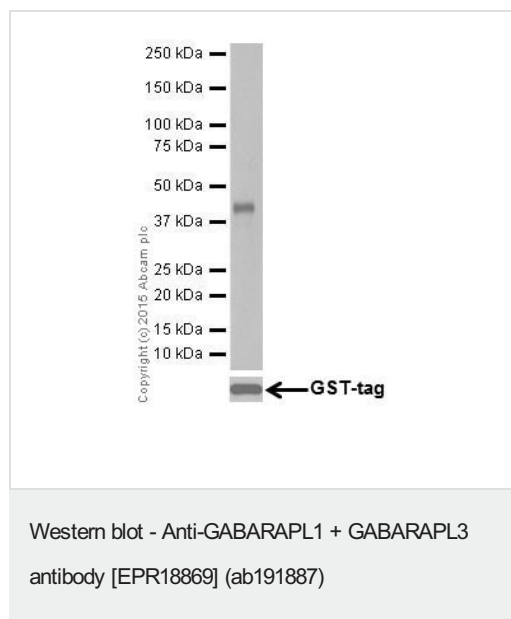
**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab191887 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Images



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

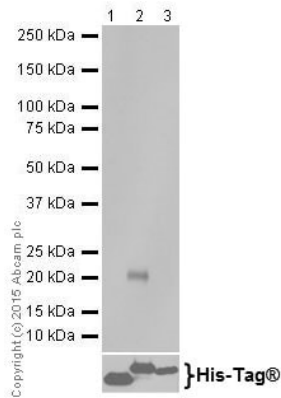
**Observed band size:** 43 kDa

**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

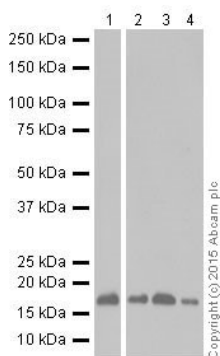
**Predicted band size:** 14 kDa

**Observed band size:** 17 kDa

**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.



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

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

**Lane 1 :** Human fetal brain tissue lysate

**Lane 2 :** Human fetal liver tissue 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

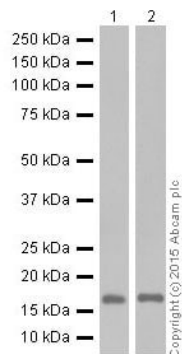
**Predicted band size:** 14 kDa

**Observed band size:** 17 kDa

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 tissue lysate

**Lane 2 :** Mouse kidney tissue lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

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

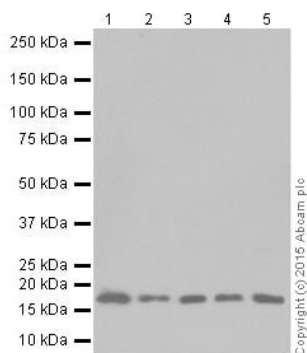
**Predicted band size:** 14 kDa

**Observed band size:** 17 kDa

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

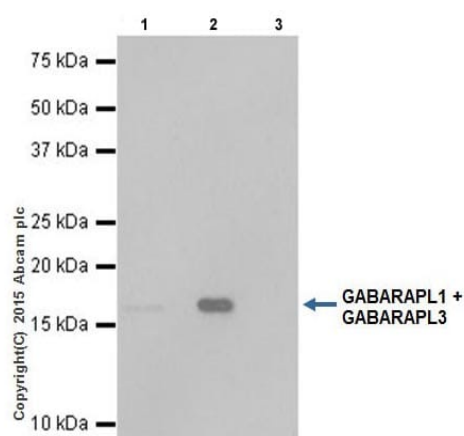
**Predicted band size:** 14 kDa

**Observed band size:** 17 kDa

**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 1mg 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?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

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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