

## Product datasheet

### Anti-VAMP2 antibody [EPR20818] ab215721

Recombinant RabMAb

★★★★★ [3 Abreviews](#) [1 References](#) [7 Images](#)

#### Overview

<b>Product name</b>	Anti-VAMP2 antibody [EPR20818]
<b>Description</b>	Rabbit monoclonal [EPR20818] to VAMP2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Neuro-2a, U-87 MG, SH-SY5Y, NIH/3T3, RAW 264.7, PC-12 and C6 whole cell lysates; Human cerebellum and fetal brain lysates; Mouse brain, hippocampus and cerebellum lysates; Rat heart, hippocampus and cerebellum lysates. IHC-P: Human kidney tissue; Mouse and rat cerebrum tissues. IP: Mouse brain 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: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR20818

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab215721 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
IP		1/30.
IHC-P	★★★★★ (3)	1/2000. 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 18 kDa (predicted molecular weight: 12 kDa).

## Target

### Function

Involved in the targeting and/or fusion of transport vesicles to their target membrane.

### Tissue specificity

Nervous system and skeletal muscle.

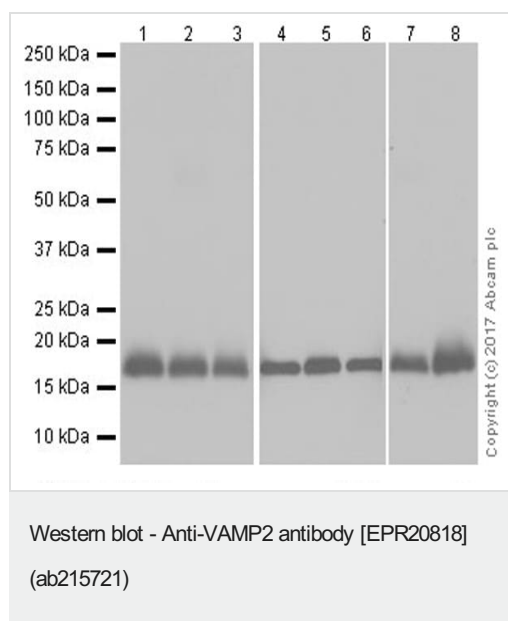
### Sequence similarities

Belongs to the synaptobrevin family.  
Contains 1 v-SNARE coiled-coil homology domain.

### Cellular localization

Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cell junction > synapse > synaptosome. Neuronal synaptic vesicles.

## Images



**All lanes :** Anti-VAMP2 antibody [EPR20818] (ab215721) at 1/1000 dilution

**Lane 1 :** Mouse brain lysate

**Lane 2 :** Mouse hippocampus lysate

**Lane 3 :** Mouse cerebellum lysate

**Lane 4 :** Neuro-2a (mouse neuroblastoma cell line), whole cell lysate

**Lane 5 :** PC-12 (rat adrenal gland pheochromocytoma cell line), whole cell lysate

**Lane 6 :** C6 (rat glial tumor cell line), whole cell lysate

**Lane 7 :** Rat cerebellum lysate

**Lane 8 :** Rat hippocampus lysate

Lysates/proteins at 20 µg per lane.

## Secondary

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

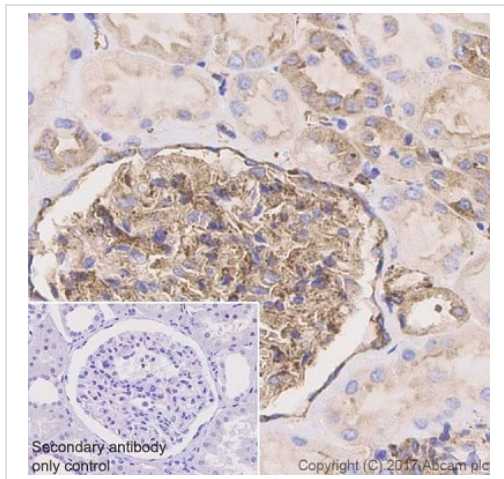
Developed using the ECL technique.

**Predicted band size:** 12 kDa

**Observed band size:** 18 kDa

**Exposure times:** Lanes 1-3, 7-8: 1 second; Lanes 4-5: 3 minutes.

Blocking/Dilution buffer: 5% NFDm/TBST.

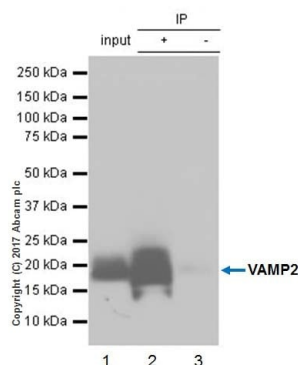


Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling VAMP2 with ab215721 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on human kidney. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VAMP2 antibody [EPR20818] (ab215721)



Immunoprecipitation - Anti-VAMP2 antibody  
[EPR20818] (ab215721)

VAMP2 was immunoprecipitated from 0.35 mg mouse brain lysate with ab215721 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab215721 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution

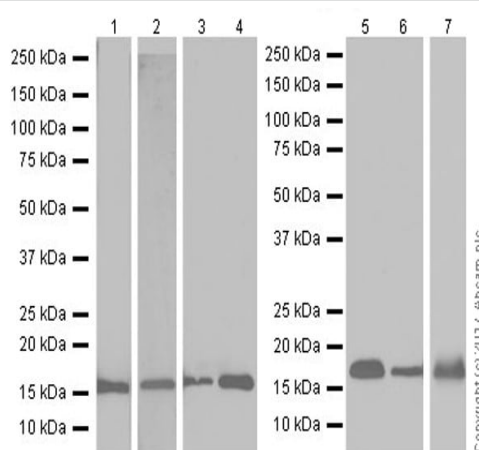
**Lane 1:** Mouse brain lysate 10 µg (Input).

**Lane 2:** ab215721 IP in mouse brain lysate.

**Lane 3:** Rabbit monoclonal IgG ([ab172730](#)) instead of ab215721 in mouse brain lysate.

**Exposure time:** 1 second.

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



Western blot - Anti-VAMP2 antibody [EPR20818]  
(ab215721)

**All lanes :** Anti-VAMP2 antibody [EPR20818] (ab215721) at 1/1000 dilution

**Lane 1 :** Rat heart lysate

**Lane 2 :** Human fetal brain lysate

**Lane 3 :** U-87 MG (human glioblastoma-astrocytoma epithelial cell line), whole cell lysate

**Lane 4 :** SH-SY5Y (human neuroblastoma cell line from bone marrow), whole cell lysate

**Lane 5 :** NIH/3T3 (mouse embryonic fibroblast cell line), whole cell lysate

**Lane 6 :** RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus), whole cell lysate

**Lane 7 :** Human cerebellum lysate

Lysates/proteins at 20 µg per lane.

## Secondary

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

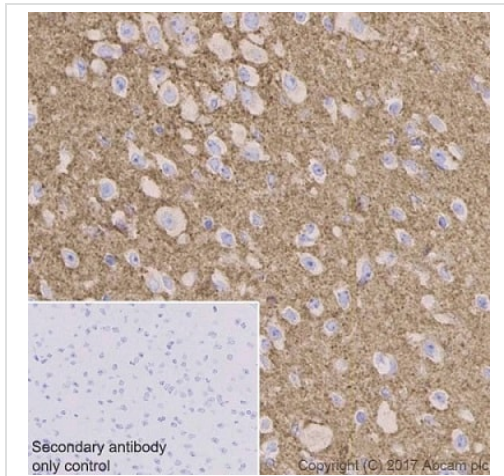
Developed using the ECL technique.

**Predicted band size:** 12 kDa

**Observed band size:** 18 kDa

**Exposure times:** Lanes 1,3-6: 3 minutes; Lanes 2,7: 1 second.

Blocking/Dilution buffer: 5% NFDM/TBST.

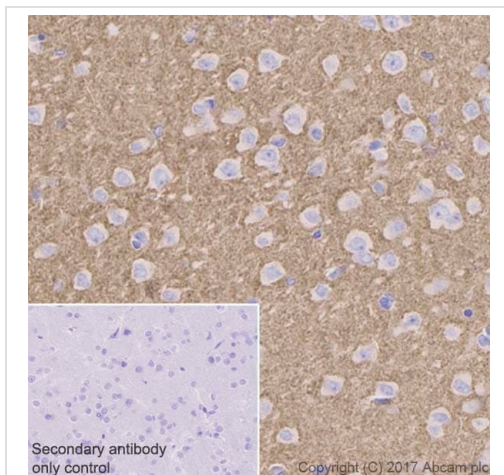


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VAMP2 antibody [EPR20818] (ab215721)

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling VAMP2 with ab215721 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on mouse cerebrum. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VAMP2 antibody [EPR20818] (ab215721)

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling VAMP2 with ab215721 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Cytoplasmic staining on rat cerebrum. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### 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-VAMP2 antibody [EPR20818] (ab215721)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

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- Extensive multi-media technical resources to help you
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