

# Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free ab277642

**重组** RabMAb

**1** References   **8** 图像

## 概述

产品名称	Anti-GABA Transporter 1 / GAT 1抗体[EPR24202-20] - BSA and Azide free
描述	兔单克隆抗体[EPR24202-20] to GABA Transporter 1 / GAT 1 - BSA and Azide free
宿主	Rabbit
经测试应用	<b>适用于:</b> IHC-Fr, ICC/IF, IHC-P <b>不适用于:</b> Flow Cyt, IP or WB
种属反应性	<b>与反应:</b> Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Mouse cerebrum and retina tissue; Rat cerebrum and retina tissue. IHC-Fr: Mouse retina tissue. ICC/IF: Primary hippocampal Rat neurons/glia
常规说明	<p>ab277642 is the carrier-free version of <a href="#">ab259971</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <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>

<b>性能</b>	
<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at +4°C.
<b>存储溶液</b>	Constituent: 100% PBS
<b>无载体</b>	是
<b>纯度</b>	Protein A purified
<b>克隆</b>	单克隆
<b>克隆编号</b>	EPR24202-20
<b>同种型</b>	IgG

应用

The Abpromise guarantee

**Abpromise™**承诺保证使用ab277642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。

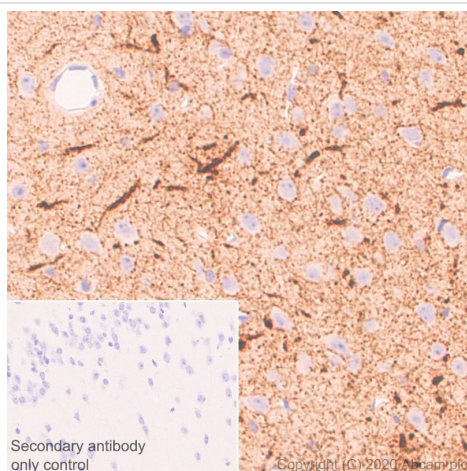
应用	Ab评论	说明
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

应用说明

Is unsuitable for Flow Cyt,IP or WB.

<b>靶标</b>	
<b>功能</b>	Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals.
<b>序列相似性</b>	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A1 subfamily.
<b>结构域</b>	The PDZ domain-binding motif is involved in the interaction with MPP5.
<b>细胞定位</b>	Cell membrane. Membrane. Localized at the plasma membrane and in a subset of intracellular vesicles. Localized at the presynaptic terminals of interneurons.

图片



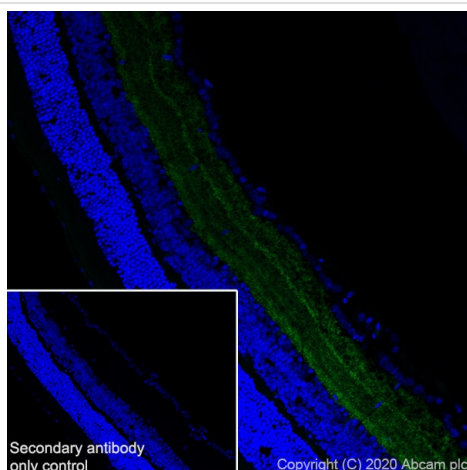
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

This data was developed using [ab259971](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling GABA Transporter 1 / GAT 1 with [ab259971](#) at 1/500 dilution (0.982 ug/ml) followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). Positive staining on mouse cerebrum (PMID: 21382352). The section was incubated with [ab259971](#) 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).

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



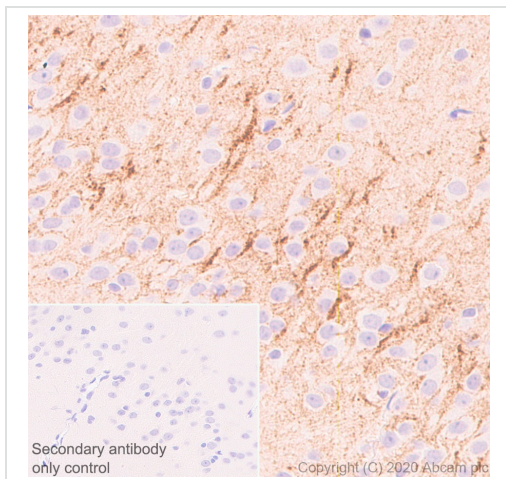
Immunohistochemistry (Frozen sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

This data was developed using [ab259971](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse retina tissue labeling GABA Transporter 1 / GAT 1 with [ab259971](#) at 1/50 (9.82 ug/ml) dilution followed by [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on mouse retina 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).



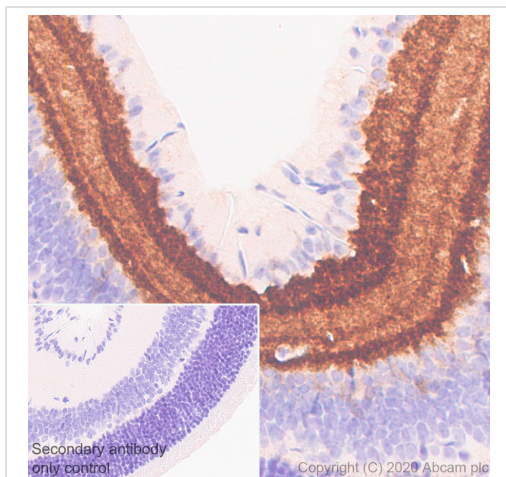
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

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Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling GABA Transporter 1 / GAT 1 with [ab259971](#) at 1/500 (0.982 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). Positive staining on rat cerebrum (PMID: 2387399). The section was incubated with [ab259971](#) 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).

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



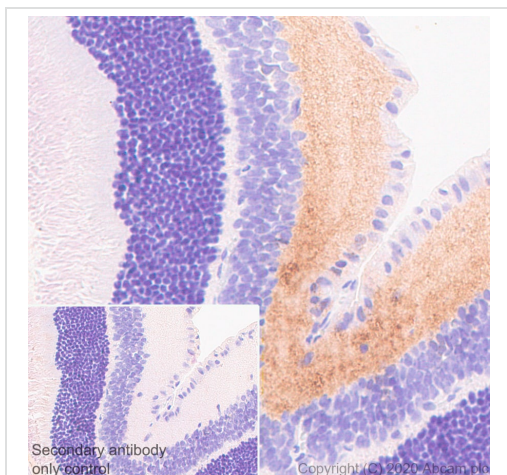
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

This data was developed using [ab259971](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse retina tissue labeling GABA Transporter 1 / GAT 1 with [ab259971](#) at 1/500 (0.982 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection). Positive staining on mouse retina (PMID: 18975268). The section was incubated with [ab259971](#) 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).

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



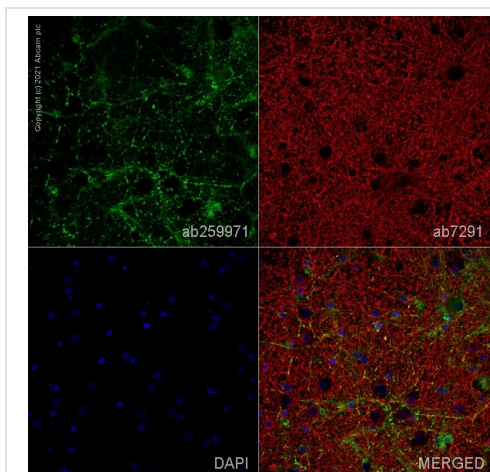
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This data was developed using [ab259971](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat retina tissue labeling GABA Transporter 1 / GAT 1 with [ab259971](#) at 1/500 (0.982 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond® Polymer Refine Detection) . Positive staining on rat retina (PMID: 2387399).The section was incubated with [ab259971](#) 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).

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

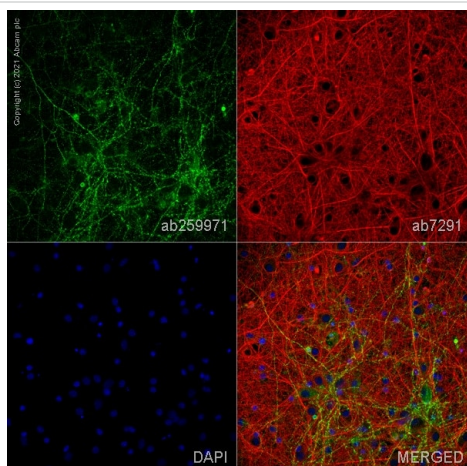


Immunocytochemistry/ Immunofluorescence - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

This data was developed using [ab259971](#), the same antibody clone in a different buffer formulation.

Immunofluorescence staining of GABA Transporter 1 / GAT 1 using [ab259971](#) in primary hippocampal rat neurons/glia, (obtained from Neuromics, cat. no. PC35101), DIV14. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab259971](#) at 1 µg/ml and [ab7291](#), Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with [ab150081](#), Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and [ab150120](#), Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Images were acquired with the Perkin Elmer Operetta HCA and a maximum intensity projection of confocal sections is shown.



Immunocytochemistry/ Immunofluorescence - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

This data was developed using **ab259971**, the same antibody clone in a different buffer formulation.

Immunofluorescence staining of GABA Transporter 1 / GAT 1 using **ab259971** in primary hippocampal rat neurons/glia, (obtained from Neuromics, cat. no. PC35101), DM14. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with **ab259971** at 5 µg/ml and **ab7291**, Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150120**, Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Images were acquired with the Perkin Elmer Operetta HCA and a maximum intensity projection of confocal sections is shown.

#### 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-GABA Transporter 1 / GAT 1 antibody  
[EPR24202-20] - BSA and Azide free (ab277642)

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

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