

Product datasheet

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

Recombinant RabMAb

6 Images

Overview

Product name	Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free
Description	Rabbit monoclonal [EPR24202-20] to GABA Transporter 1 / GAT 1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, IHC-P Unsuitable for: Flow Cyt, ICC, IP or WB
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment within Mouse GABA Transporter 1/ GAT 1 aa 1-100. The exact sequence is proprietary. Database link: P31648
Positive control	IHC-P: Mouse cerebrum and retina tissue; Rat cerebrum and retina tissue. IHC-Fr: Mouse retina tissue.
General notes	<p>ab277642 is the carrier-free version of ab259971. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab277642 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24202-20
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab277642** in the following tested applications.

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

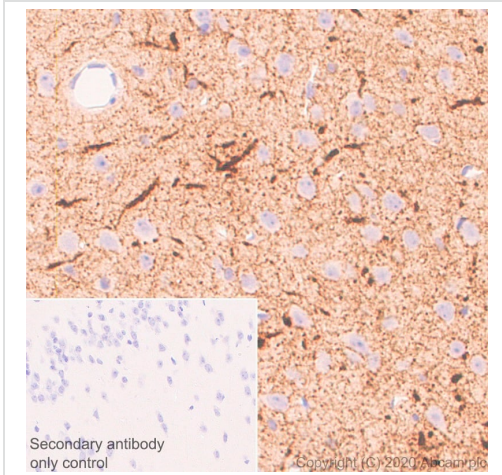
Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before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

Application notes Is unsuitable for Flow Cyt, ICC, IP or WB.

Target

Function	Terminates the action of GABA by its high affinity sodium-dependent reuptake into presynaptic terminals.
Sequence similarities	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A1 subfamily.
Domain	The PDZ domain-binding motif is involved in the interaction with MPP5.
Cellular localization	Cell membrane. Membrane. Localized at the plasma membrane and in a subset of intracellular vesicles. Localized at the presynaptic terminals of interneurons.

Images



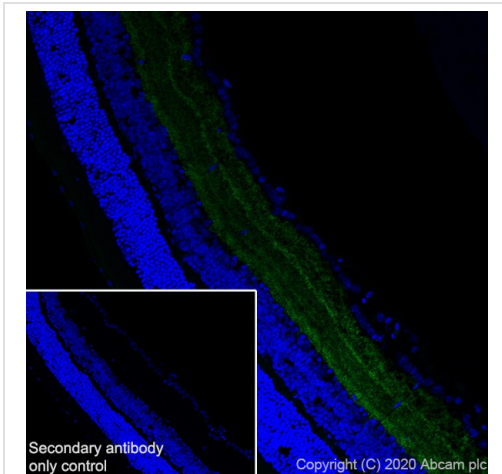
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

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.



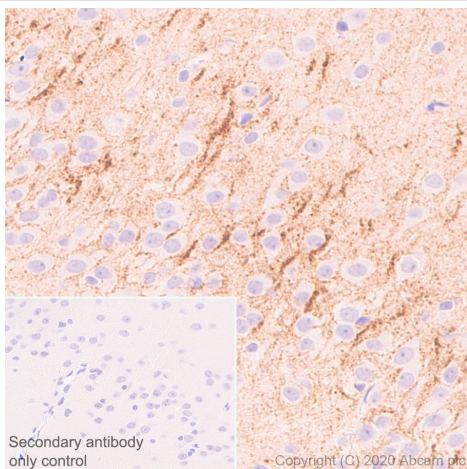
Immunohistochemistry (Frozen sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

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).



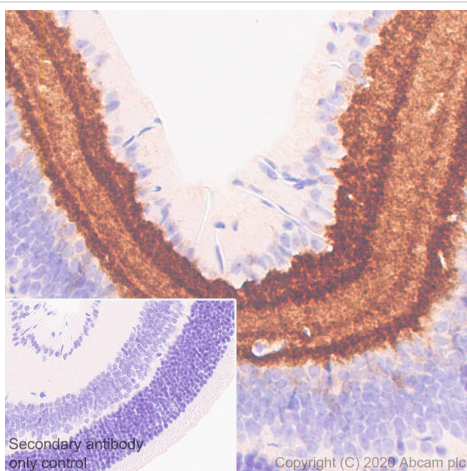
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

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

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.



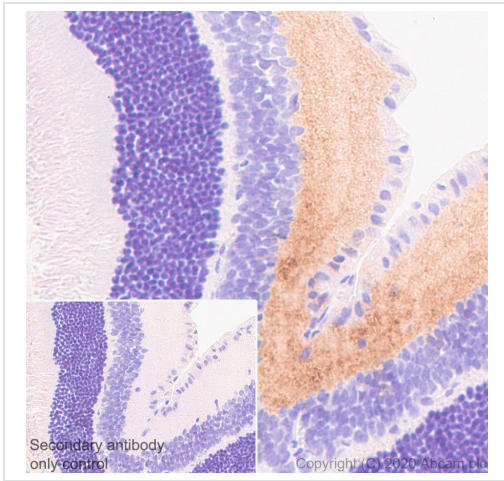
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA Transporter 1 / GAT 1 antibody [EPR24202-20] - BSA and Azide free (ab277642)

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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.



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 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.

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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-GABA Transporter 1 / GAT 1 antibody
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Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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