

Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free ab275094

Recombinant RabMAb

8 Images

Overview

Product name	Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free
Description	Rabbit monoclonal [EPR23530-3] to Serotonin transporter - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, IP, IHC-P Unsuitable for: Flow Cyt, ICC/IF or WB
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Mouse and rat cerebrum tissue. IHC-Fr: Mouse cerebrum tissue. IP: Mouse and rat brain tissue lysate.
General notes	<p>ab275094 is the carrier-free version of ab254358.</p> <p>Our carrier-free 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 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>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] 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">- 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. Do Not Freeze.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23530-3
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab275094 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).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

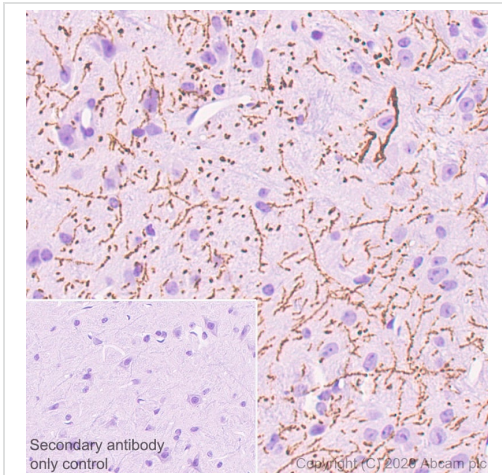
Application notes Is unsuitable for Flow Cyt, ICC/IF or WB.

Target

Function	Serotonin transporter whose primary function in the central nervous system involves the regulation of serotonergic signaling via transport of serotonin molecules from the synaptic cleft back into the pre-synaptic terminal for re-utilization. Plays a key role in mediating regulation of the availability of serotonin to other receptors of serotonergic systems. Terminates the action of serotonin and recycles it in a sodium-dependent manner.
Tissue specificity	Expressed in platelets (at protein level).
Sequence similarities	Belongs to the sodium:neurotransmitter symporter (SNF) (TC 2.A.22) family. SLC6A4 subfamily.
Post-translational modifications	Glycosylated; modification with sialylated N-glycans is a requirement for transporters to associate with each other and to function as homooligomeric forms. Phosphorylated at Ser-611, Thr-613 and Thr-616.
Cellular localization	Cell membrane. Endomembrane system. Endosome membrane. Translocates from intracellular locations to the plasma membrane. Density of transporter molecules on the plasma membrane is

itself regulated by serotonin.

Images



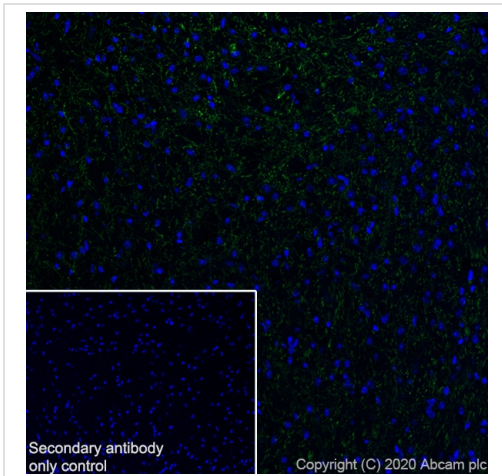
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

This data was developed using [ab254358](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded mouse cerebrum tissue labeling Serotonin transporter with [ab254358](#) at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on mouse cerebrum (PMID 23127756). The section was incubated with [ab254358](#) 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 Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



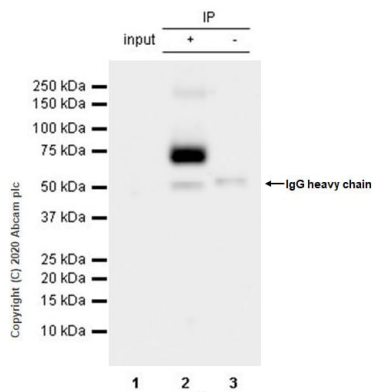
Immunohistochemistry (Frozen sections) - Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

This data was developed using [ab254358](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse cerebrum tissue labeling Serotonin transporter with [ab254358](#) at 1/50 dilution followed by [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution (Green). Positive staining on synapses of neurons in mouse cerebrum 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).



Immunoprecipitation - Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

This data was developed using [ab254358](#), the same antibody clone in a different buffer formulation.

Serotonin transporter was immunoprecipitated from 0.35 mg mouse brain tissue lysate with [ab254358](#) at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using [ab254358](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

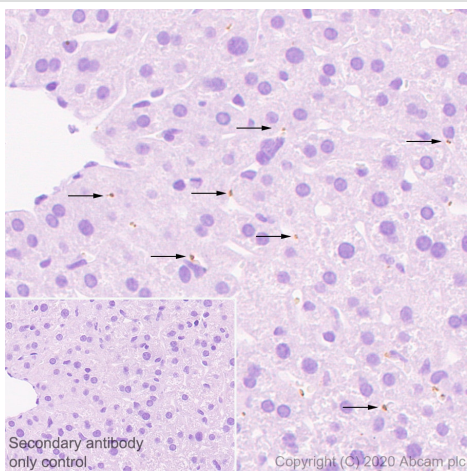
Lane 1: Mouse brain tissue lysate 10 µg

Lane 2: [ab254358](#) IP in mouse brain tissue lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab254358](#) in mouse brain tissue lysate

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

Exposure time: 15 seconds.



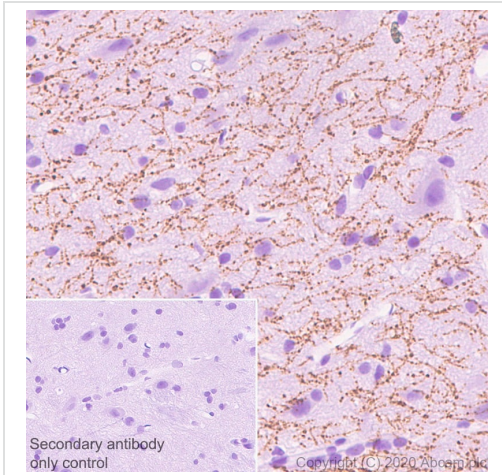
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Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling Serotonin transporter with [ab254358](#) at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on platelets and **negative staining on hepatocytes** of mouse liver (PMID: 7869097). The section was incubated with [ab254358](#) 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 Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



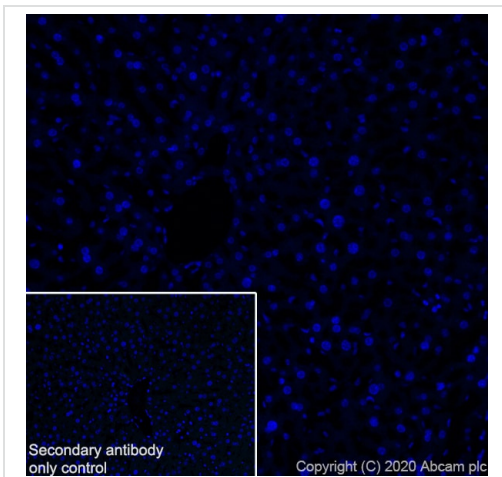
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

This data was developed using **ab254358**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded rat cerebrum tissue labeling Serotonin transporter with **ab254358** at 1/2000 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on rat cerebrum (PMID 23127756). The section was incubated with **ab254358** 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 1) for 20 mins.



Immunohistochemistry (Frozen sections) - Anti-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

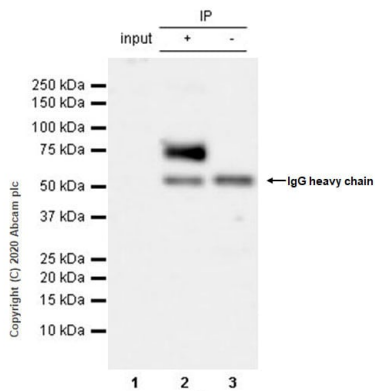
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Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse liver tissue labeling Serotonin transporter with **ab254358** at 1/50 dilution followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution (Green). The nuclear counterstain was DAPI (Blue).

Negative control: No staining on mouse liver (PMID: 9037532) is observed.

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).



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Lane 1: Rat brain tissue lysate 10 µg

Lane 2: **ab254358** IP in rat brain tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab254358** in rat brain tissue lysate

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 33 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-Serotonin transporter antibody [EPR23530-3] - BSA and Azide free (ab275094)

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