

Product datasheet

Anti-VACHT antibody ab235201

3 Images

Overview

Product name	Anti-VACHT antibody
Description	Rabbit polyclonal to VACHT
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Rat Predicted to work with: Mouse, Human 
Immunogen	Synthetic peptide. This information is considered to be commercially sensitive.
Positive control	ICC/IF: Post-natal rat pup (PND1) heterogeneous brain cells. IHC-P: Rat spinal cord tissue. WB: Post-natal rat pup whole brain lysate (PND2-6)
General notes	This product was previously labelled as Vesicular Acetylcholine Transporter

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituent: PBS
Purity	Affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab235201** in the following tested applications.

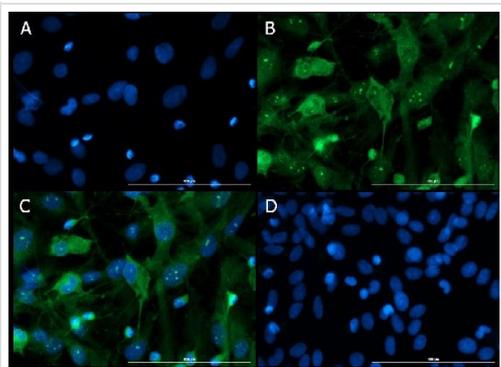
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 56 kDa.
ICC/IF		Use a concentration of 5 - 15 µg/ml.
IHC-P		1/100. Antigen retrieval: HIER using citrate buffer for 20 minutes.

Target

Function	Involved in acetylcholine transport into synaptic vesicles.
Tissue specificity	Peripheral and central cholinergic nervous systems.
Sequence similarities	Belongs to the major facilitator superfamily. Vesicular transporter family.
Cellular localization	Membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-VACHT antibody (ab235201)

4% PFA-fixed, 0.3% Triton X-100 permeabilized Post-natal rat pup (PND1) heterogeneous brain cells labeling VACHT (green) using ab235201 at 15 µg/mL, O/N at 4°C. Donkey Anti-Rabbit IgG DyLight™ 488 Conjugated Preadsorbed was used as the secondary antibody at 5 µg/ml for 1 h at RT. The nuclear counterstain was DAPI (blue).

Expected localization: predicted membrane, golgi apparatus

Antibody detecting dendrites and axons and specific organelles in the nucleus (nucleolus). Staining correspondent to confirmed VACHT (Slc18a3) staining in mouse brain P7 Gensat project:

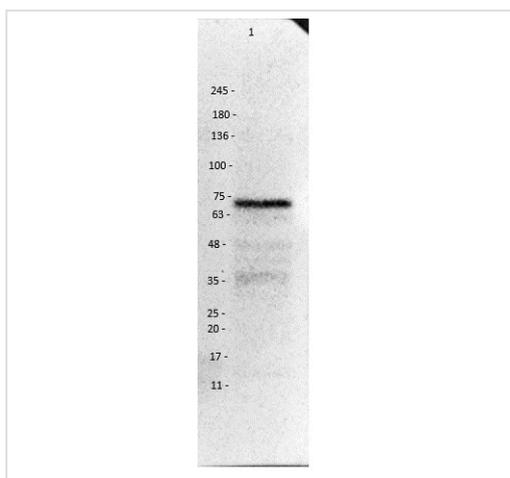
<http://www.gensat.org/imagenavigator.jsp?imageID=66611>

(A) DAPI

(B) ab235201 + secondary antibody

(C) Merge images A+B.

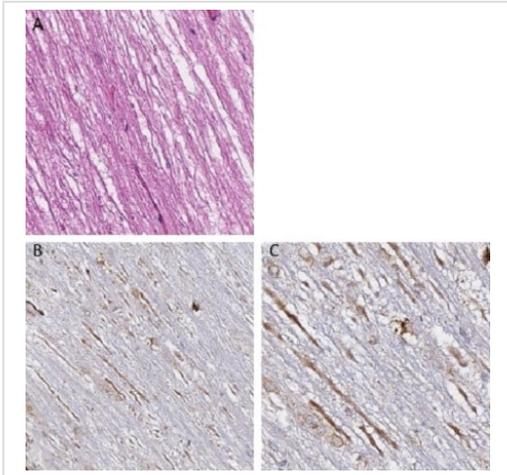
(D) Secondary antibody only



Western blot - Anti-VACHT antibody (ab235201)

Anti-VACHT antibody (ab235201) at 1/1000 dilution + Post-natal rat pup whole brain lysate (PND2-6)

Predicted band size: 56 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VACHT antibody (ab235201)

Paraffin-embedded rat spinal cord tissue stained for VACHT using ab235201 at 1/100 dilution for 30 minutes at room temperature. Secondary antibody was an anti-Rabbit Poly-HRP-IgG, ready to use for 8 minutes at room temperature. Counterstained with hematoxylin.

A: Rat spinal cord H&E.

B: ab235201 20X magnification.

C: ab235201 40X magnification.

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

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