abcam

Product datasheet

Anti-Choline Acetyltransferase antibody [EPR16590] ab178850



★★★★★ 6 Abreviews 39 References 8 Images

Overview

Product name Anti-Choline Acetyltransferase antibody [EPR16590]

Description Rabbit monoclonal [EPR16590] to Choline Acetyltransferase

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Species reactivity Reacts with: Mouse, Rat, Rabbit, Guinea pig

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Rat brain lysate; Rabbit brain lysate; Guinea Pig brain and cerebellum lysates. IHC-P: Mouse

cerebral cortex tissue, Guinea Pig cerebral cortex tissue,

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**[®] **patents**.

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

Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

Purity Protein A purified

Clonality Monoclonal
Clone number EPR16590

Isotype IgG

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Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab178850 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)	1/1000. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).
IHC-P	**** <u>(2)</u>	1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

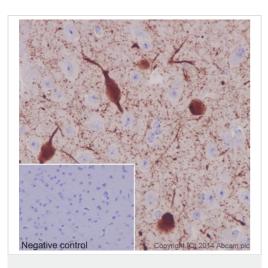
Function Catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at

cholinergic synapses.

Involvement in diseaseMyasthenic syndrome, congenital, 6, presynaptic

Sequence similaritiesBelongs to the carnitine/choline acetyltransferase family.

Images

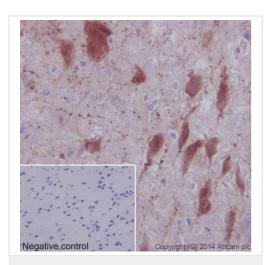


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

Immunohistochemical analysis of paraffin-embedded Guinea Pig cerebral cortex tissue labeling Choline Acetyltransferase with ab178850 at 1/2000 followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Nucleus and cytoplasm staining on neurons of Guinea Pig cerebral cortex is observed. Counter stained with Hematoxylin.

Negative control: Using PBS instead of primary ab, secondary ab is prediluted HRP Polymer for Rabbit/Mouse lgG.

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

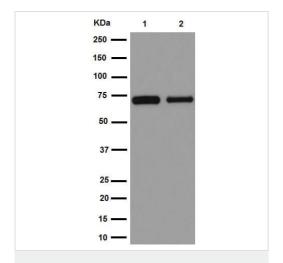


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

Immunohistochemical analysis of paraffin-embedded Mouse cerebral cortex tissue labeling Choline Acetyltransferase with ab178850 at 1/2000 followed by prediluted HRP Polymer for Rabbit/Mouse IgG. Nucleus and cytoplasm staining on neurons of Mouse cerebral cortex is observed. Counter stained with Hematoxylin.

Negative control: Using PBS instead of primary ab, secondary ab is prediluted HRP Polymer for Rabbit/Mouse IgG.

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



Western blot - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

All lanes : Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850) at 1/5000 dilution

Lane 1: Guinea Pig brain lysate

Lane 2 : Guinea Pig cerebellum lysate

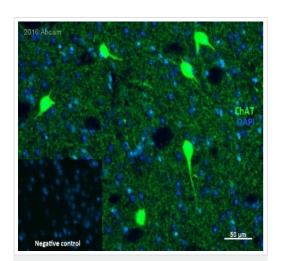
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-Rabbit $\lg G$ (HRP), specific to the non-reduced form of $\lg G$ at 1/1000 dilution

Predicted band size: 72 kDa **Observed band size:** 72 kDa

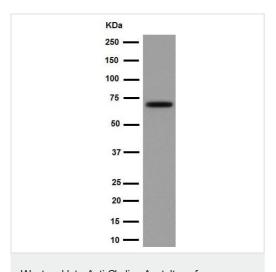
Blocking/Dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse brain tissue sections labeling Choline Acetyltransferase with ab178850 at 1/2000 dilution. Cells were fixed in 10% normal buffered formalin, heat mediated antigen retrieval was performed using TE pH9. A donkey anti-rabbit Alexa Fluor 647 was used as the secondary antibody at 1/300 dilution. Green was a false colour used to represent the Alexa Fluor 647 fluorescent signal.

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

This image is courtesy of an anonymous abreview.



Western blot - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

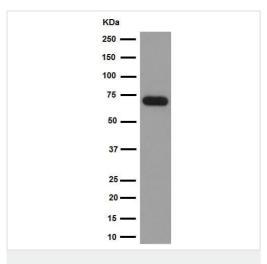
Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850) at 1/1000 dilution + Rabbit brain lysate at 10 μg

Secondary

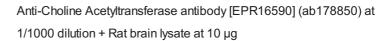
Anti-Rabbit lgG (HRP), specific to the non-reduced form of lgG at 1/1000 dilution

Predicted band size: 72 kDa **Observed band size:** 72 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

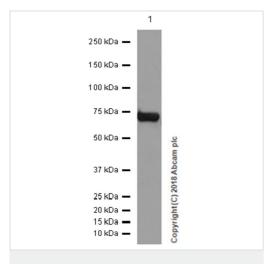


Secondary

Goat Anti-Rabbit lgG, (H+L),Peroxidase conjugated at 1/1000 dilution

Predicted band size: 72 kDa **Observed band size:** 72 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850)

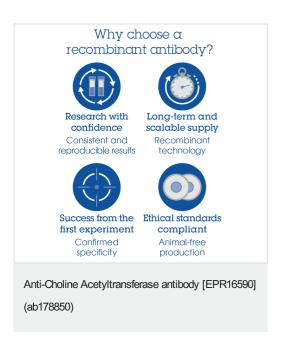
Anti-Choline Acetyltransferase antibody [EPR16590] (ab178850) at 1/2000 dilution + Mouse brain tissue lysate at 20 μ g with 5% NFDM/TBST

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 72 kDa **Observed band size:** 72 kDa

Exposure time: 3 minutes



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

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