abcam

Product datasheet

Anti-Choline Acetyltransferase antibody [EPR16590] - BSA and Azide free ab221793

Recombinant RabMAb

1 References 4 Images

Overview

Product name Anti-Choline Acetyltransferase antibody [EPR16590] - BSA and Azide free

DescriptionRabbit monoclonal [EPR16590] to Choline Acetyltransferase - BSA and Azide free

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 ab221793 is the carrier-free version of <u>ab178850</u>.

Our <u>carrier-free</u> 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.

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.

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.

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.

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**.

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Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C. Do Not Freeze.

Storage buffer pH: 7.2

Constituent: PBS

Carrier free Yes

Purity Protein A purified

Clonality Monoclonal
Clone number EPR16590

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab221793 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		Use at an assay dependent concentration. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).
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. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

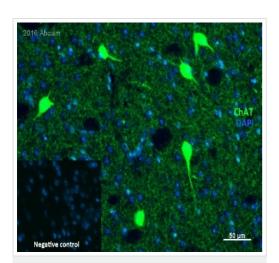
Function Catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at

cholinergic synapses.

Involvement in disease Myasthenic syndrome, congenital, 6, presynaptic

Sequence similaritiesBelongs to the carnitine/choline acetyltransferase family.

Images

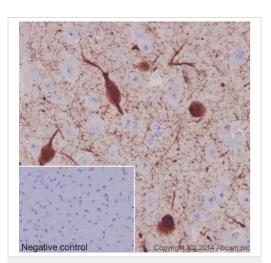


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Choline Acetyltransferase antibody [EPR16590] - BSA and Azide free (ab221793)

This image is courtesy of an anonymous abreview.

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab178850).



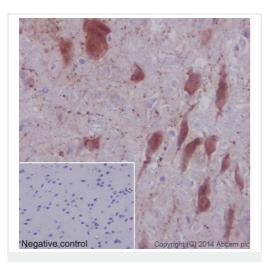
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Choline Acetyltransferase antibody [EPR16590] - BSA and Azide free (ab221793)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (<u>ab178850</u>).

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] - BSA and Azide free (ab221793)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab178850).

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



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- BSA and Azide free (ab221793)

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