Product datasheet

Anti-Acetylcholinesterase antibody ab31276

Overview

Product name
Anti-Acetylcholinesterase antibody

Description
Goat polyclonal to Acetylcholinesterase

Host species
Goat

Specificity
This antibody is expected to recognise isoform NP_000656 only (the ubiquitously expressed, hydrophilic form).

Tested applications
Suitable for: WB

Species reactivity
Reacts with: Mouse, Human

Predicted to work with: Rat, Rabbit, Cow, Cat

Immunogen
Synthetic peptide:
QFDHYSKQDRCSDL
, corresponding to C terminal amino acids 601-614 of Human Acetylcholinesterase

Positive control
Human fibroblast cell lines A431 and HeLa lysates. Human cerebellum lysates.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer
Preservative: 0.02% Sodium Azide
Constituents: 0.5% BSA, Tris buffered saline, pH 7.3

Purity
Immunogen affinity purified

Purification notes
Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab31276 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft. Role in neuronal apoptosis.

**Tissue specificity**
Isoform H is highly expressed in erythrocytes.

**Sequence similarities**
Belongs to the type-B carboxylesterase/lipase family.

**Cellular localization**
Cell membrane; Cell junction > synapse. Secreted. Cell membrane and Nucleus. Only observed in apoptotic nuclei.

**Images**

**Target**

**Application** | **Abreviews** | **Notes**
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WB | ⭐⭐⭐⭐ | Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 70 kDa (predicted molecular weight: 68 kDa).

**Western blot - Anti-Acetylcholinesterase antibody (ab31276)**

This image is courtesy of an Abreview submitted by Ender Avci

**All lanes**: Anti-Acetylcholinesterase antibody (ab31276) at 1/200 dilution

**Lane 1**: SkHep1 cell lysate

**Lane 2**: Snu387 cell lysate

**Lane 3**: SW620 cell lysate

**Lane 4**: Zebrafish brain lysate

Lysates/proteins at 50 µg per lane.

**Secondary**

**All lanes**: HRP-conjugated Rabbit anti-goat IgG polyclonal at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size**: 68 kDa

**Exposure time**: 20 minutes
Anti-Acetylcholinesterase antibody (ab31276) at 0.1 µg/ml + Human Fibroblast A431 lysate (35µg protein in RIPA buffer)

**Predicted band size:** 68 kDa  
**Observed band size:** 60-70 kDa  
why is the actual band size different from the predicted?

Primary incubation was 1 hour. Detected by chemiluminescence.

Anti-Acetylcholinesterase antibody (ab31276) at 1 µg/ml + human cerebellum lysate (35µg protein in RIPA buffer).

**Predicted band size:** 68 kDa  
**Observed band size:** 70 kDa  
why is the actual band size different from the predicted?

Primary incubation was 1 hour. Detected by chemiluminescence.

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

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