

## Product datasheet

# Anti-Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 antibody [EPR4563(2)] ab124832

Recombinant RabMAb

★★★★★ [2 Abreviews](#) [5 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 antibody [EPR4563(2)]
<b>Description</b>	Rabbit monoclonal [EPR4563(2)] to Nicotinic Acetylcholine Receptor alpha 4/CHRNA4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt, ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide within Human Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 aa 500-600. The exact sequence is proprietary.
<b>Positive control</b>	SH-SY5Y, A673, C6 and Neuro-2a cell lysates.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

Clone number EPR4563(2)

Isotype IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124832 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)	1/10000 - 1/50000. Detects a band of approximately 70 kDa (predicted molecular weight: 70 kDa).

**Application notes** Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

## Target

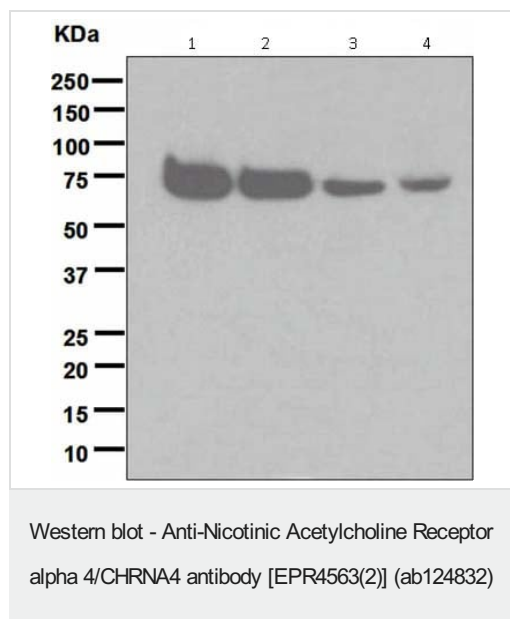
**Function** After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.

**Involvement in disease** Defects in CHRNA4 are the cause of nocturnal frontal lobe epilepsy type 1 (ENFL1) [MIM:600513]; also symbolized ADNFLE. ENFL1 is an autosomal dominant epilepsy characterized by nocturnal seizures with hyperkinetic automatisms and poorly organized stereotyped movements.

**Sequence similarities** Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha-4/CHRNA4 sub-subfamily.

**Cellular localization** Cell junction > synapse > postsynaptic cell membrane. Cell membrane.

## Images



**All lanes :** Anti-Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 antibody [EPR4563(2)] (ab124832) at 1/10000 dilution

**Lane 1 :** SH-SY5Y cell lysate

**Lane 2 :** A673 cell lysate

**Lane 3 :** C6 cell lysate

**Lane 4 :** Neuro-2a cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 70 kDa

**Observed band size:** 70 kDa

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Nicotinic Acetylcholine Receptor alpha  
4/CHRNA4 antibody [EPR4563(2)] (ab124832)

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

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