

Product datasheet

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

Recombinant RabMAb

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

Overview

Product name	Anti-Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 antibody [EPR4563(2)]
Description	Rabbit monoclonal [EPR4563(2)] to Nicotinic Acetylcholine Receptor alpha 4/CHRNA4
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Nicotinic Acetylcholine Receptor alpha 4/CHRNA4 aa 500-600. The exact sequence is proprietary.
Positive control	SH-SY5Y, A673, C6 and Neuro-2a cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- 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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	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

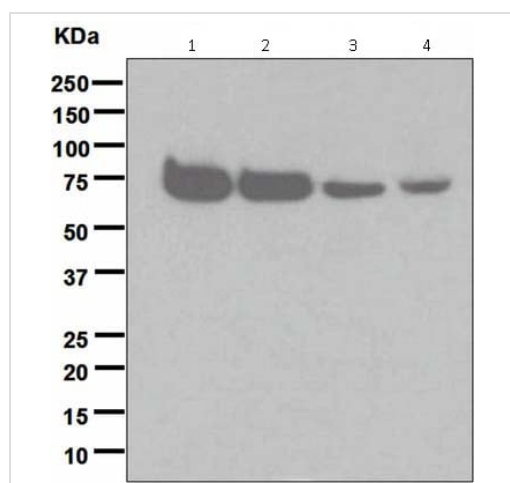
Function After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.

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



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

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?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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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