

CHRNA2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11942a**Specification**

CHRNA2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q15822
Other Accession	NP_000733.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59765
Antigen Region	42-69

CHRNA2 Antibody (N-term) - Additional Information**Gene ID** 1135**Other Names**

Neuronal acetylcholine receptor subunit alpha-2, CHRNA2

Target/Specificity

This CHRNA2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 42-69 amino acids from the N-terminal region of human CHRNA2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CHRNA2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHRNA2 Antibody (N-term) - Protein Information**Name** CHRNA2

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.

Cellular Location

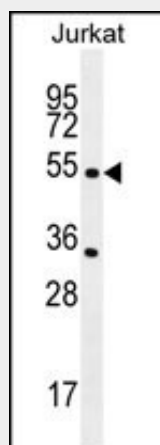
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

CHRNA2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHRNA2 Antibody (N-term) - Images



CHRNA2 Antibody (N-term) (Cat. #AP11942a) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the CHRNA2 antibody detected the CHRNA2 protein (arrow).

CHRNA2 Antibody (N-term) - Background

Nicotinic acetylcholine receptors (nAChRs) are ligand-gated ion channels formed by a pentameric arrangement of alpha and beta subunits to create distinct muscle and neuronal receptors. Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. This gene encodes an alpha subunit that is widely expressed in the brain. The proposed structure for nAChR subunits is a conserved N-terminal extracellular domain followed by three conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. Mutations in this gene cause autosomal dominant nocturnal frontal lobe epilepsy type 4. Single nucleotide polymorphisms (SNPs) in this gene have been associated with nicotine dependence.

CHRNA2 Antibody (N-term) - References

Saccone, N.L., et al. Genes Brain Behav. 9(7):741-750(2010)
Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)
Rigbi, A., et al. Pharmacogenomics J. (2010) In press :
Hoda, J.C., et al. FEBS Lett. 583(10):1599-1604(2009)
Philibert, R.A., et al. Nicotine Tob. Res. 11(3):286-292(2009)