

**CHRNA3 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5022A**

**Specification**

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**CHRNA3 Antibody (N-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P32297</a>
Other Accession	<a href="#">Q07263</a>
Reactivity	<b>Human</b>
Predicted	<b>Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>57480</b>
Antigen Region	<b>25-52</b>

**CHRNA3 Antibody (N-term) - Additional Information**

**Gene ID** 1136

**Other Names**

Neuronal acetylcholine receptor subunit alpha-3, CHRNA3, NACHRA3

**Target/Specificity**

This CHRNA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 25-52 amino acids from the N-terminal region of human CHRNA3.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**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**

CHRNA3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CHRNA3 Antibody (N-term) - Protein Information**

**Name** CHRNA3

## Synonyms NACHRA3

**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

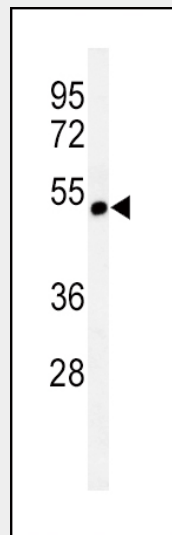
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:P04757} Golgi apparatus {ECO:0000250|UniProtKB:P04757}. Note=Interaction with UBXN2A/UBXD4 promotes translocation to the plasma membrane {ECO:0000250|UniProtKB:P04757}

## CHRNA3 Antibody (N-term) - Protocols

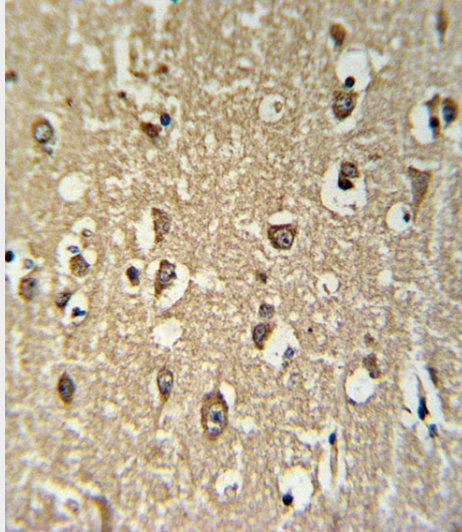
Provided below are standard protocols that you may find useful for product applications.

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

## CHRNA3 Antibody (N-term) - Images



Western blot analysis of CHRNA3 Antibody (N-term) (Cat. #AP5022a) in CEM cell line lysates (35ug/lane).CHRNA3 (arrow) was detected using the purified Pab.



CHRNA3 Antibody (N-term) (Cat. #AP5022a) IHC analysis in formalin fixed and paraffin embedded brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CHRNA3 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **CHRNA3 Antibody (N-term) - Background**

CHRNA3 locus encodes a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described.

#### **CHRNA3 Antibody (N-term) - References**

Cho, M.H., et al. Nat. Genet. 42(3):200-202(2010)  
Girard, N., et al. Clin. Cancer Res. 16(2):755-763(2010)  
Grando, S.A., et al. J. Invest. Dermatol. 105(6):774-781(1995)

#### **CHRNA3 Antibody (N-term) - Citations**

- [Cellular Zinc Homeostasis Contributes to Neuronal Differentiation in Human Induced Pluripotent Stem Cells.](#)