

**CHRNA9 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20598a****Specification**

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**CHRNA9 Antibody (N-term) - Product Information**

Application	<b>WB, FC,E</b>
Primary Accession	<a href="#">O9UGM1</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>54807</b>
Antigen Region	<b>8-42</b>

**CHRNA9 Antibody (N-term) - Additional Information****Gene ID** 55584**Other Names**

Neuronal acetylcholine receptor subunit alpha-9, Nicotinic acetylcholine receptor subunit alpha-9, NACHR alpha-9, CHRNA9, NACHRA9

**Target/Specificity**

This CHRNA9 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 8-42 amino acids from the N-terminal region of human CHRNA9.

**Dilution**

WB~~1:1000

FC~~1:25

**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**

CHRNA9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CHRNA9 Antibody (N-term) - Protein Information****Name** CHRNA9**Synonyms** NACHRA9

**Function** Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding induces a conformation change that leads to the opening of an ion-conducting channel across the plasma membrane (PubMed:[11752216](#), PubMed:[25282151](#)). The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane (PubMed:[11752216](#), PubMed:[25282151](#)). In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma. May also regulate keratinocyte adhesion (PubMed:[11021840](#)).

#### Cellular Location

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

#### Tissue Location

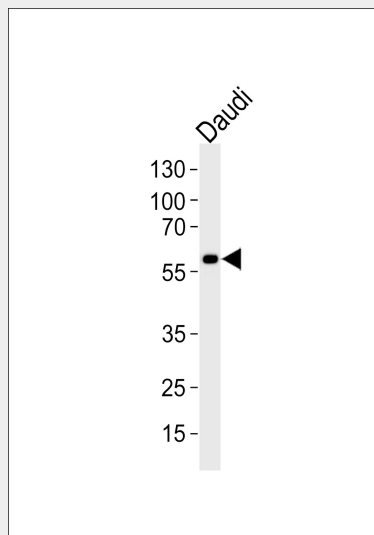
Expressed in cochlea, keratinocytes, pituitary gland, B-cells and T-cells.

### CHRNA9 Antibody (N-term) - Protocols

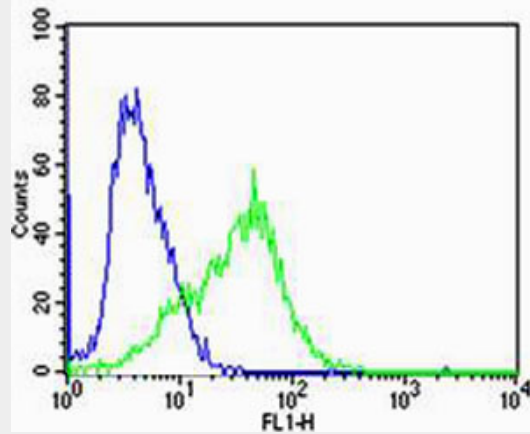
Provided below are standard protocols that you may find useful for product applications.

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

### CHRNA9 Antibody (N-term) - Images



Western blot analysis of lysate from Daudi cell line, using CHRNA9 Antibody (N-term)(Cat. #AP20598a). AP20598a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.



Flow cytometric analysis of Jurkat cells using CHRNA9 Antibody (N-term)(green, Cat#AP20598a) compared to an isotype control of rabbit IgG(blue). AP20598a was diluted at 1:25 dilution. An Alexa Fluor® 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.

### **CHRNA9 Antibody (N-term) - Background**

Ionotropic receptor with a probable role in the modulation of auditory stimuli. Agonist binding may induce an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is permeable to a range of divalent cations including calcium, the influx of which may activate a potassium current which hyperpolarizes the cell membrane. In the ear, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing. This may protect against acoustic trauma. May also regulate keratinocyte adhesion.

### **CHRNA9 Antibody (N-term) - References**

- Sgard F.,et al.Mol. Pharmacol. 61:150-159(2002).
- Lustig L.R.,et al.Cytogenet. Genome Res. 98:154-159(2002).
- Hillier L.W.,et al.Nature 434:724-731(2005).
- Nguyen V.T.,et al.Am. J. Pathol. 157:1377-1391(2000).
- Peng H.,et al.Life Sci. 76:263-280(2004).