Product Name: AChRα9 Rabbit Polyclonal Antibody
Catalog #: APRab06500

Summary

Production Name	AChRα9 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	CHRNA9
Alternative Names	Neuronal acetylcholine receptor subunit alpha-9 (Nicotinic acetylcholine receptor subunit alpha-9) (NACHR alpha-9)
Gene ID	55584.0
SwissProt ID	Q9UGM1.The antiserum was produced against synthesized peptide derived from the N-terminal region of human CHRNA9. AA range:50-100

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:10000.
Molecular Weight	55kD

Background

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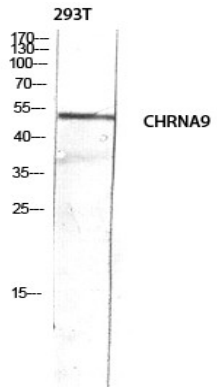
This gene is a member of the ligand-gated ionic channel family and nicotinic acetylcholine receptor gene superfamily. It encodes a plasma membrane protein that forms homo- or hetero-oligomeric divalent cation channels. This protein is involved in cochlea hair cell development and is also expressed in the outer hair cells (OHCs) of the adult cochlea. [provided by RefSeq, Feb 2012],function: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.,miscellaneous:The hetero-oligomeric receptor composed of CHRNA9 and CHRNA10 has an atypical pharmacological profile, binding several non-nicotinic ligands including strychnine (a glycine receptor antagonist) and atropine (a muscarinic acetylcholine receptor antagonist).,similarity:Belongs to the ligand-gated ionic channel (TC 1.A.9) family.,subunit:Can form homo- or hetero-oligomeric channels in conjunction with CHRNA10. The native outer hair cell receptor may be composed of CHRNA9-CHRNA10 hetero-oligomers.,tissue specificity:Expressed in cochlea, keratinocytes, pituitary gland, B-cells and T-cells.,

Research Area

Image Data



Western blot analysis of 293T lysis using CHRNA9 antibody. Antibody was diluted at 1:500. Secondary antibody was diluted at 1:20000

Note

For research use only.