CHRNA9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHRNA9, Polyclonal Antibody
Full Product Name	CHRNA9 (Neuronal acetylcholine Receptor Subunit alpha-9, Nicotinic acetylcholine Receptor Subunit alpha-9, NACHR alpha-9, CHRNA9, NACHRA9) (HRP)
Product Gene Name	anti-CHRNA9 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHRNA9. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates.
Molecular Weight	54,807 Da
OMIM	605116
3D Structure	ModBase 3D Structure for Q9UGM1
Immunogen	KLH conjugated synthetic peptide corresponding to aa8-42 at the N-terminal region of human CHRNA9.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-CHRNA9 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-CHRNA9 antibody	Western Blot (WB), Flow Cytometry (FC/FACS)
Application Notes for anti-CHRNA9 antibody	WB: 1:1000 FC/FACS: 1:25 Applications are based on unconjugated antibody.
Related Product Information for anti-CHRNA9 antibody	MBS6455110 is an antibody targeting CHRNA9. Also known as CHRNA9 (Neuronal acetylcholine Receptor Subunit alpha-9, Nicotinic acetylcholine Receptor Subunit alpha-9, NACHR alpha-9, CHRNA9, NACHRA9) (HRP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CHRNA9 antibody	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).
Other Notes	Small volumes of anti-CHRNA9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRNA9. It may not necessarily be applicable to this product.

NCBI GI #	70995130
NCBI GeneID	55584
NCBI Accession #	NP_060051.2
UniProt Primary Accession #	Q9UGM1
UniProt Secondary Accession #	Q14CY7; Q4W5A2; Q9NYV2
UniProt Related Accession #	Q9UGM1
GenBank Nucleotide #	NM_017581.3
NCBI Official Full Name	neuronal acetylcholine receptor subunit alpha-9
NCBI Official Synonym Full Names	cholinergic receptor nicotinic alpha 9 subunit
NCBI Official Symbol	CHRNA9
NCBI Official Synonym Symbols	NACHRA9; HSA243342
UniProt Protein Name	Neuronal acetylcholine receptor subunit alpha-9
UniProt Synonym Protein Names	Nicotinic acetylcholine receptor subunit alpha-9; NACHR alpha-9
Protein Family	Neuronal acetylcholine receptor
UniProt Gene Name	CHRNA9
UniProt Synonym Gene Names	NACHRA9; NACHR alpha-9
UniProt Entry Name	ACHA9_HUMAN
NCBI Protein Information	neuronal acetylcholine receptor subunit alpha-9
NCBI Summary for CHRNA9	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]
UniProt Comments for CHRNA9	nAChRA9: 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. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha- 9/CHRNA9 sub-subfamily. Protein type: Channel, ligand-gated; Membrane protein, integral; Channel, cation; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 4p14 Cellular Component: cell junction; cytosol; integral to plasma membrane; nicotinic acetylcholine-gated receptor-channel complex; plasma membrane; postsynaptic membrane Molecular Function: acetylcholine binding; acetylcholine receptor activity; acetylcholine-gated cation channel activity; calcium channel activity; nicotinic acetylcholine-activated cation-selective channel activity Biological Process: detection of mechanical stimulus involved in sensory perception of sound; elevation of cytosolic calcium ion concentration; inner ear morphogenesis; synaptic transmission; synaptic transmission, cholinergic
Research Articles on CHRNA9	**1.** Our findings support a significant interaction effect existing between the CHRNA9 gene and smoking exposure on the risk of breast cancer development.

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