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Anti-CHRNA10 Antibody

Rabbit polyclonal antibody to CHRNA10
Catalog # AP59856

Product Information

Application	WB, IP
Primary Accession	Q9GZZ6
Reactivity	Human, Monkey
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49705

Additional Information

Gene ID	57053
Other Names	NACHRA10; Neuronal acetylcholine receptor subunit alpha-10; Nicotinic acetylcholine receptor subunit alpha-10; NACHR alpha-10
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CHRNA10. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IP (1/10 - 1/100) IP~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

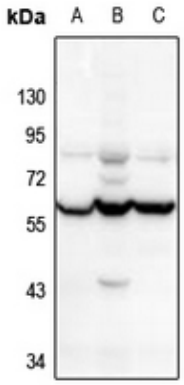
Name	CHRNA10 (HGNC:13800)
Synonyms	NACHRA10
Function	Component of neuronal acetylcholine receptors (nAChRs) that function as pentameric, ligand-gated cation channels with high calcium permeability. nAChRs are excitatory neurotrasnmitter receptors formed by a collection of nAChR subunits. Each nAchR subunit confers differential attributes to channel properties, including activation, deactivation and desensitization kinetics, pH sensitivity, cation permeability, and binding to allosteric modulators (Probable). Forms heteropentamers with CHRNA9. Expressed in the inner ear, in sympathetic neurons and in other non-neuronal cells, such as skin keratinocytes and lymphocytes (PubMed:11752216, PubMed:15531379). nAChR formed by CHRNA9:CHRNA10 is involved in modulation of auditory stimuli. 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, mediates synaptic transmission between efferent olivocochlear fibers and hair cells of the cochlea, this may lead to a reduction in basilar membrane motion, altering the activity of auditory nerve fibers and reducing the range of dynamic hearing (PubMed:11752216). This may protect against acoustic trauma. May also regulate keratinocyte adhesion (By similarity).
Cellular Location	Synaptic cell membrane {ECO:0000250|UniProtKB:Q9JLB5}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:Q9JLB5}; Multi-pass membrane protein
Tissue Location	Expressed in inner-ear tissue, tonsil, immortalized B-cells, cultured T-cells and peripheral blood lymphocytes

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human CHRNA10. The exact sequence is proprietary.

Images



Western blot analysis of CHRNA10 expression in Jurkat (A), K562 (B), THP1 (C) whole cell lysates.