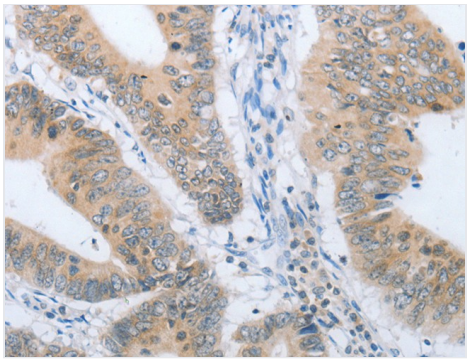
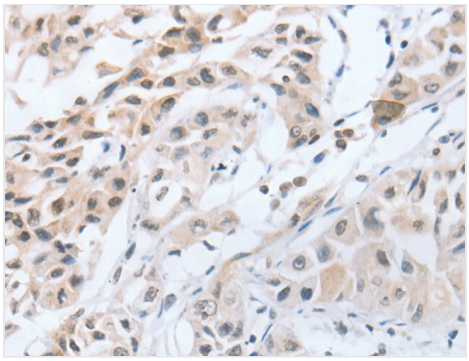
CHRNA10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHRNA10, Polyclonal Antibody
Full Product Name	CHRNA10 Polyclonal Antibody
Product Gene Name	anti-CHRNA10 antibody
Product Synonym Names	no
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	1.8mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	49,705 Da
OMIM	606372
Immunogen	Synthetic peptide of human CHRNA10
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHRNA10 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-CHRNA10 antibody	IHC: 1:25-1:100
Related Product Information for anti-CHRNA10 antibody	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.
Other Notes	Small volumes of anti-CHRNA10 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.
Searchable Terms for CHRNA10 purchase	MBS2518910 is an antibody targeting CHRNA10. Also known as CHRNA10 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-CHRNA10 antibody
Immunohistochemistry of paraffin-embedded Human colon cancer tissue using CHRNA10 Polyclonal Antibody at dilution 1:50



Immunohistochemistry (IHC) of anti-CHRNA10 antibody
Immunohistochemistry of paraffin-embedded Human lung cancer tissue using CHRNA10 Polyclonal Antibody at dilution 1:50

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRNA10. It may not necessarily be applicable to this product.

NCBI GI #	229597171
NCBI GeneID	57053
NCBI Accession #	AAI36251.1
UniProt Related Accession #	Q9GZZ6
NCBI Official Full Name	CHRNA10 protein, partial
NCBI Official Synonym Full Names	cholinergic receptor, nicotinic, alpha 10 (neuronal)
NCBI Official Symbol	CHRNA10
UniProt Protein Name	Neuronal acetylcholine receptor subunit alpha-10
UniProt Synonym Protein Names	Nicotinic acetylcholine receptor subunit alpha-10; NACHR alpha-10
Protein Family	Neuronal acetylcholine receptor
UniProt Gene Name	CHRNA10
UniProt Synonym Gene Names	NACHRA10; NACHR alpha-10
UniProt Entry Name	ACH10_HUMAN
NCBI Protein Information	neuronal acetylcholine receptor subunit alpha-10; NACHR alpha-10; acetylcholine receptor, nicotinic, alpha 10 (neuronal); cholinergic receptor, nicotinic, alpha polypeptide 10; nicotinic acetylcholine receptor subunit alpha-10

UniProt Comments for CHRNA10	nAChRA10: 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. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha- 10/CHRNA10 sub-subfamily. Protein type: Membrane protein, integral; Channel, ligand-gated; Membrane protein, multi-pass; Channel, cation Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: nicotinic acetylcholine-gated receptor-channel complex; postsynaptic membrane; membrane; axon; perikaryon; cell junction Molecular Function: calcium channel activity; nicotinic acetylcholine-activated cation-selective channel activity; receptor binding Biological Process: elevation of cytosolic calcium ion concentration; inner ear morphogenesis; detection of mechanical stimulus involved in sensory perception of sound; synaptic transmission, cholinergic; regulation of cell proliferation
Research Articles on CHRNA10	**1.** A two order of magnitude species difference is reported in potency of alpha-conotoxin RgIA for rat versus human alpha9alpha10 nAChR.
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