

AChR α 10 Polyclonal Antibody

Catalog No :	YT0081
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	AChR α 10
Fields :	>>Neuroactive ligand-receptor interaction
Gene Name :	CHRNA10
Protein Name :	Neuronal acetylcholine receptor subunit alpha-10
Human Gene Id :	57053
Human Swiss Prot No :	Q9GZZ6
Rat Gene Id :	64574
Rat Swiss Prot No :	Q9JLB5
Immunogen :	The antiserum was produced against synthesized peptide derived from human CHRNA10. AA range:394-443
Specificity :	AChR α 10 Polyclonal Antibody detects endogenous levels of AChR α 10 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 50kD

Background : 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.,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:Forms hetero-oligomeric channels in conjunction with CHRNA9. The native outer hair cell receptor may be composed of CHRNA9-CHRNA10 hetero-oligomers.,tissue specificity:Expressed in inner-ear tissue, tonsil, immortalized B-cells, cultured T-cells and peripheral blood lymphocytes.

Function : 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.,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).,simi

Subcellular Location : Cell junction, synapse, postsynaptic cell membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein .

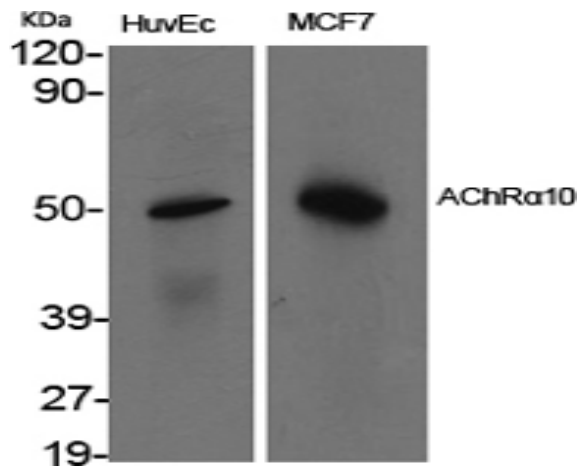
Expression : Expressed in inner-ear tissue, tonsil, immortalized B-cells, cultured T-cells and peripheral blood lymphocytes.

Sort : 1650

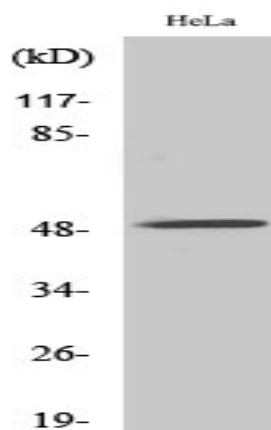
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Host : Rabbit

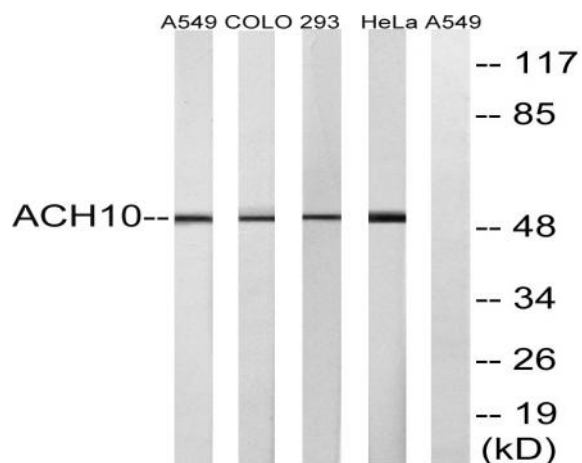
Products Images



Western Blot analysis of various cells using AChRα10 Polyclonal Antibody



Western Blot analysis of A549 cells using AChRα10 Polyclonal Antibody



Western blot analysis of lysates from HeLa, 293, COLO, and A549 cells, using CHRNA10 Antibody. The lane on the right is blocked with the synthesized peptide.