

AChR α 5 Polyclonal Antibody
Catalog # AP68266**Specification****AChR α 5 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P30532
Reactivity	Human, Mouse, Rat, Monkey
Host	Rabbit
Clonality	Polyclonal

AChR α 5 Polyclonal Antibody - Additional Information**Gene ID** 1138**Other Names**

CHRNA5; NACHRA5; Neuronal acetylcholine receptor subunit alpha-5

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

AChR α 5 Polyclonal Antibody - Protein Information**Name** CHRNA5 ([HGNC:1959](#))**Synonyms** NACHRA5**Function**

Component of neuronal acetylcholine receptors (nAChRs) that function as pentameric, ligand-gated cation channels with high calcium permeability among other activities. nAChRs are excitatory neurotransmitter receptors formed by a collection of nAChR subunits known to mediate synaptic transmission in the nervous system and the neuromuscular junction. Each nAChR subunit confers differential attributes to channel properties, including activation, deactivation and desensitization kinetics, pH sensitivity, cation permeability, and binding to allosteric modulators (PubMed:20881005, PubMed:8663494). Has an accessory rather than functional role and is only able to form functional nAChRs when co-assembled with another beta subunit (PubMed:20881005, PubMed:8663494). Participates in pentameric assemblies along with CHRNA3, CHRNA4, CHRNB2 and CHRNB4 (PubMed:20881005, PubMed:20881005, PubMed:20881005, PubMed:20881005).

<http://www.uniprot.org/citations/8663494> target="_blank">8663494). Increases receptor sensitivity to acetylcholine and nicotine when associated with CHRNA4 and CHRNA2 (PubMed:8663494). Plays a role in nicotine addiction (PubMed:20881005).

Cellular Location

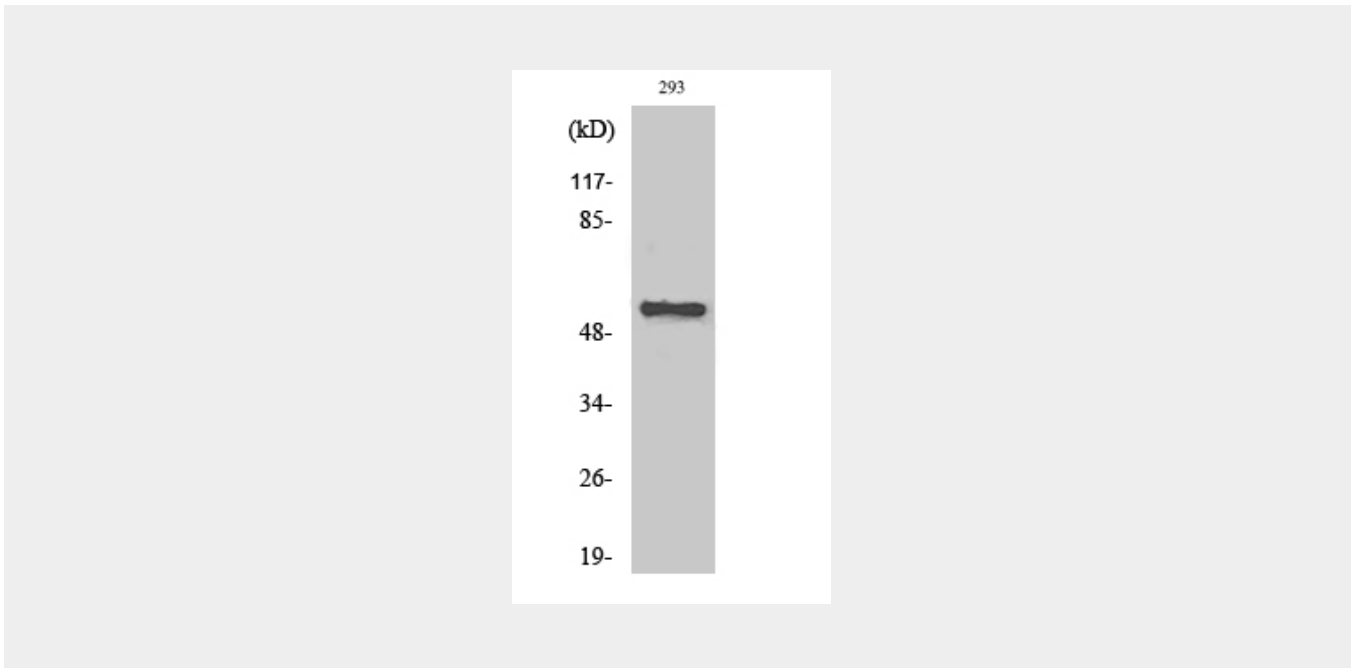
Synaptic cell membrane {ECO:0000250|UniProtKB:P32297}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:P32297}; Multi-pass membrane protein

AChR α 5 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AChR α 5 Polyclonal Antibody - Images



AChR α 5 Polyclonal Antibody - Background

After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.