10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHRNA2 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI16214

Product Information

Application	WB
Primary Accession	Q15822
Other Accession	NM_000742, NP_000733
Reactivity	Human
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59765

Additional Information

Gene ID	1135
Other Names	Neuronal acetylcholine receptor subunit alpha-2, CHRNA2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 100 ul of distilled water. Final anti-CHRNA2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	CHRNA2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHRNA2 (HGNC:1956)
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 neurotrasnmitter 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:18723036). CHRNA2 forms heteropentameric neuronal acetylcholine receptors with CHRNB2 and CHRNB4 and plays a role in nicotine dependence (PubMed:24467848, PubMed:27493220).

Cellular Location	Synaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

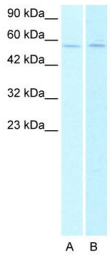
Background

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.

References

Elliott K.J.,et al.J. Mol. Neurosci. 7:217-228(1996).
Groot Kormelink P.J.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Nusbaum C.,et al.Nature 439:331-335(2006).
Aridon P.,et al.Am. J. Hum. Genet. 79:342-350(2006).

Images



Host: Rabbit
Target Name: CHRNA2
Lane A: HepG2 cell lysate
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Lane B: Raji cell lysate
s
Antibody Dilution: 0.5µg/ml