

Goat Anti-CHRNA1 / ACHRB Antibody
Peptide-affinity purified goat antibody
Catalog # AF1240a**Specification**

Goat Anti-CHRNA1 / ACHRB Antibody - Product Information

Application	WB
Primary Accession	P11230
Other Accession	NP_000738 , 1140
Reactivity	Human
Predicted	Mouse, Rat, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	56698

Goat Anti-CHRNA1 / ACHRB Antibody - Additional Information**Gene ID** 1140**Other Names**

Acetylcholine receptor subunit beta, CHRNA1, ACHRB, CHRNA

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-CHRNA1 / ACHRB Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-CHRNA1 / ACHRB Antibody - Protein Information**Name** CHRNA1 ([HGNC:1961](#))**Synonyms** ACHRB, CHRNA**Function**

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.

Cellular Location

Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

Goat Anti-CHRNA1 / ACHRB 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](#)

Goat Anti-CHRNA1 / ACHRB Antibody - Images

AF1240a (1 µg/ml) staining of human cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-CHRNA1 / ACHRB Antibody - Background

The muscle acetylcholine receptor is composed of five subunits: two alpha subunits and one beta, one gamma, and one delta subunit. This gene encodes the beta subunit of the acetylcholine receptor. The acetylcholine receptor changes conformation upon acetylcholine binding leading to the opening of an ion-conducting channel across the plasma membrane. Mutations in this gene are associated with slow-channel congenital myasthenic syndrome.

Goat Anti-CHRNA1 / ACHRB Antibody - References

Multiple cholinergic nicotinic receptor genes affect nicotine dependence risk in African and European Americans. Saccone NL, et al. Genes Brain Behav, 2010 Jun 22. PMID 20584212.
Examination of the nicotine dependence (NICSNP) consortium findings in the Iowa adoption studies population. Philibert RA, et al. Nicotine Tob Res, 2009 Mar. PMID 19307444.
Binding to gating transduction in nicotinic receptors: Cys-loop energetically couples to pre-M1 and M2-M3 regions. Lee WY, et al. J Neurosci, 2009 Mar 11. PMID 19279256.
Multiple distinct risk loci for nicotine dependence identified by dense coverage of the complete family of nicotinic receptor subunit (CHRN) genes. Saccone NL, et al. Am J Med Genet B Neuropsychiatr Genet, 2009 Jun 5. PMID 19259974.
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analysis of regulatory and non-synonymous SNPs of 306 genes involved in neurotransmission and neurodevelopment. Gratac³s M, et al. Am J Med Genet B Neuropsychiatr Genet, 2009 Sep 5. PMID 19086053.