

**Goat Anti-CHRNA2 Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1241a

**Specification**

---

**Goat Anti-CHRNA2 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P17787</a>
Other Accession	<a href="#">NP_000739</a> , <a href="#">1141</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	57019

**Goat Anti-CHRNA2 Antibody - Additional Information**

**Gene ID** 1141

**Other Names**

Neuronal acetylcholine receptor subunit beta-2, CHRNA2

**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-CHRNA2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-CHRNA2 Antibody - Protein Information**

**Name** CHRNA2

**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 permeable to sodium ions.

**Cellular Location**

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

protein

### Goat Anti-CHRNA2 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-CHRNA2 Antibody - Images



AF1241a (1 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-CHRNA2 Antibody - Background

Neuronal acetylcholine receptors are homo- or heteropentameric complexes composed of homologous alpha and beta subunits. They belong to a superfamily of ligand-gated ion channels which allow the flow of sodium and potassium across the plasma membrane in response to ligands such as acetylcholine and nicotine. This gene encodes one of several beta subunits. Mutations in this gene are associated with autosomal dominant nocturnal frontal lobe epilepsy.

### Goat Anti-CHRNA2 Antibody - References

Resequencing of Nicotinic Acetylcholine Receptor Genes and Association of Common and Rare Variants with the Fagerstr m Test for Nicotine Dependence. Wessel J, et al. Neuropsychopharmacology, 2010 Aug 25. PMID 20736995.  
An approach based on a genome-wide association study reveals candidate loci for narcolepsy. Shimada M, et al. Hum Genet, 2010 Oct. PMID 20677014.  
Intermediate phenotypes identify divergent pathways to Alzheimer's disease. Shulman JM, et al. PLoS One, 2010 Jun 21. PMID 20574532.  
Association of CR1, CLU and PICALM with Alzheimer's disease in a cohort of clinically characterized and neuropathologically verified individuals. Corneveaux JJ, et al. Hum Mol Genet, 2010 Aug 15. PMID 20534741.  
NMR structure of the transmembrane domain of the n-acetylcholine receptor beta2 subunit.

Bondarenko V, et al. Biochim Biophys Acta, 2010 Aug. PMID 20441771.