

## Product datasheet for **TA302451**

### Nicotinic Acetylcholine Receptor alpha 4 (CHRNA4) Goat Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:64,000. WB: 1-3µg/ml.
Reactivity:	Human, Rat (Expected from sequence similarity: Mouse, Dog, Cow)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-HVETRAHAEERLLKK, from the internal region of the protein sequence according to NP_000735.1.
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	73587 Da
Gene Name:	cholinergic receptor nicotinic alpha 4 subunit
Database Link:	<a href="#">NP_000735</a> <a href="#">Entrez Gene 11438 Mouse</a> <a href="#">Entrez Gene 25590 Rat</a> <a href="#">Entrez Gene 485972 Dog</a> <a href="#">Entrez Gene 1137 Human</a> <a href="#">P43681</a>



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**Background:**

This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-gated ion channels that play a role in fast signal transmission at synapses. These pentameric receptors can bind acetylcholine, which causes an extensive change in conformation that leads to the opening of an ion-conducting channel across the plasma membrane. This protein is an integral membrane receptor subunit that can interact with either nAChR beta-2 or nAChR beta-4 to form a functional receptor. Mutations in this gene cause nocturnal frontal lobe epilepsy type 1. Polymorphisms in this gene that provide protection against nicotine addiction have been described. [provided by RefSeq]

**Synonyms:**

BFNC; EBN; EBN1; NACHR; NACHRA4; NACRA4

**Protein Families:**

Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

**Product images:**

TA302451 (0.3ug/ml) staining of Rat Brain lysate (35ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.