

Product datasheet for TA302451

OriGene Technologies, Inc.

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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: NP 000735

Entrez Gene 11438 MouseEntrez Gene 25590 RatEntrez Gene 485972 DogEntrez Gene 1137

<u>Human</u> <u>P43681</u>





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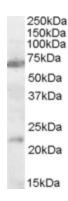
Background:

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.