

## Product datasheet for **TA389023**

### Chrn2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	<b>WB:</b> 1:1000 <b>WB Brain:</b> 1:1000
Reactivity:	Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein from the cytoplasmic loop of the $\beta$ 2 subunit of mouse nAChR.
Specificity:	Specific for endogenous levels of the ~52 kDa nAChR $\beta$ 2 protein.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g per ml BSA and 50% glycerol.
Concentration:	lot specific
Purification:	Antigen Affinity Purified from Pooled Serum
Conjugation:	Unconjugated
Storage:	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Stability:	After date of receipt, stable for at least 1 year at -20°C.
Predicted Protein Size:	52
Gene Name:	cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)
Database Link:	<a href="#">Entrez Gene 11444 Mouse Q9ERK7</a>



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**Background:**

Nicotinic acetylcholine receptors (nAChRs) are ionotropic, cholinergic receptors that are divided into 2 types; muscle type and neuronal type. Neuronal nAChRs are pentameric ion channels consisting of 5 identical (homopentamers) or different (heteropentamers) subunits. Heteropentameric neuronal nAChRs mediate fast synaptic transmission in the autonomic nervous system. The predominant hetero-oligomeric nAChR in the CNS contain the subunits  $\alpha 4\beta 2$ , whereas  $\alpha 3\beta 4$  prevail in the PNS. However, the expression of these subunits varies not only by region but also during development (Scholze et al 2011). In the brain,  $\beta 2$ -containing receptors greatly outnumber receptors that contain  $\beta 4$  (McGehee & Role, 1995; Albuquerque, et al., 2009), and in most brain regions, targeted deletion of the  $\beta 2$  subunit virtually abolishes [3H]-epibatidine binding and receptor autoradiography (Zoli, et al., 1998) due to the absence of a  $\beta$  subunit required to form functional nAChRs (Champtiaux & Changeux, 2004).

**Synonyms:**

EFNL3; nAChRB2

**Note:**

Prepared from pooled rabbit serum by affinity purification using a column to which the fusion protein antigen was coupled.