

Product datasheet for **TA389024**

Chrn4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:1000 WB Brain: 1:1000
Reactivity:	Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein from the cytoplasmic loop of the β 4 subunit of mouse nAChR.
Specificity:	Specific for endogenous levels of the ~52 kDa nAChR β 4 protein.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ 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 4
Database Link:	Entrez Gene 108015 Mouse Q8R493



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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 β subunit required to form functional nAChRs (Champtiaux & Changeux, 2004).

Synonyms:

CHRN4

Note:

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