

Anti-Nicotinic Acetylcholine Receptor (nAChR) β4 Antibody

Our Anti-Nicotinic Acetylcholine Receptor (nAChR) β4 primary antibody from PhosphoSolutions is rabbi Catalog # AN1473

Product Information

ApplicationWBPrimary AccessionQ8R493HostRabbitClonalityPolyclonalIsotypeIgGCalculated MW55809

Additional Information

Gene ID 108015

Other Names

acetylcholine receptor nicotinic beta 4 (neuronal) antibody, ACHB4_HUMAN
antibody, AChR antibody, Cholinergic receptor nicotinic beta 4 antibody,
Cholinergic receptor nicotinic beta polypeptide 4 antibody, cholinergic
receptor nicotinic beta polypeptide 4 antibody, Chrnb4 antibody, Neuronal
acetylcholine receptor subunit beta-4 antibody, Neuronal nicotinic receptor

beta 4 subunit antibody

Target/Specificity 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 $\alpha4\beta2$, whereas $\alpha3\beta4$ 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, $\beta2$ -containing receptors greatly outnumber receptors that contain $\beta4$ (McGehee & Role, 1995;

Albuquerque, et al., 2009), and in most brain regions, targeted deletion of the β2 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).

Dilution WB~~1:1000

Format Antigen Affinity Purified from Pooled Serum

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 Anti-Nicotinic Acetylcholine Receptor (nAChR) β4 Antibody is for research use

only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

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 $\alpha4\beta2$, whereas $\alpha3\beta4$ 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, $\beta2$ -containing receptors greatly outnumber receptors that contain $\beta4$ (McGehee & Role, 1995; Albuquerque, et al., 2009), and in most brain regions, targeted deletion of the $\beta2$ 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.