

## Datasheet for ABIN7581862 anti-CHRNB4 antibody (Extracellular)



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Quantity:	200 μL	
Target:	CHRNB4	
Binding Specificity:	AA 95-108, Extracellular	
Reactivity:	Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CHRNB4 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunochromatography (IC), Immunofluorescence (IF), Live Cell Imaging (LCI)	

## **Product Details**

Purpose:	A Rabbit Polyclonal Antibody to Nicotinic Acetylcholine Receptor β4
Immunogen:	CYEGVNILRIPAKR, corresponding to amino acid residues 95-108 of rat nAChRbeta4
Sequence:	CYEGVNILRI PAKR
Isotype:	IgG
Specificity:	Extracellular, N-terminus
Predicted Reactivity:	Mouse - identical, human - 13,14 amino acid residues identical
Characteristics:	Anti-Nicotinic Acetylcholine Receptor $\beta 4$ (CHRNB4) (extracellular) Antibody (ABIN7581862) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, immunohistochemistry, live cell imaging, and immunocytochemistry

## **Product Details**

Product Details	
	applications. It has been designed to recognize nAChRβ4 from mouse, rat, and human samples.
Purification:	Affinity purified on immobilized antigen.
Target Details	
Target:	CHRNB4
Alternative Name:	CHRNB4 (CHRNB4 Products)
Background:	NAChR $\beta 4$ , Neuronal acetylcholine receptor subunit beta-4, Cholinergic receptor nicotinic beta 4,Acetylcholine, released by cholinergic neurons, activates two groups of acetylcholine receptors (AChRs), muscarinic AChRs (mAChRs), which belong to the G-protein coupled receptor (GPCR) superfamily, and nicotinic AChRs (nAChRs), which belong to the ligand-gated ion channel superfamily. nAChRs also respond to nicotine, hence their name1. To date, 17 different but related subunits of nAChRs have been identified and cloned. They consist of a subunits ( $\alpha 1$ -10), which are responsible for the binding of ligands. In fact, this subunit includes a Cys-loop in the first extracellular domain that is required for agonist binding2. The other subunits responsible for making up the active receptor are the $\beta$ ( $\beta 1$ -4), $\gamma$ , $\delta$ and $\varepsilon$ subunits3. Structurally, all subunits have the following: a conserved large extracellular N-terminal domain, three conserved transmembrane domains, a variable cytoplasmic loop and a fourth transmembrane domain with a short extracellular C-terminal domain. An active nAChR is generally a heteropentamer of these various subunits organized around a central pore1. While most $\beta$ subunits are neuronal, the $\beta 1$ subunit forms functional receptors along with other subunits in the muscle3. In neurons the $\alpha 2$ - $\alpha 6$ and $\beta 2$ - $\beta 4$ subunits form heteropentameric receptors, usually with a $(\alpha x) 2(\beta y) 3$ stoichiometry3.
Gene ID:	25103
UniProt:	P12392
Application Details	
Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody  Application Dilutions Immunohistochemistry paraffin embedded sections ihc: N/A  Application Dilutions Western blot wb: 1:200
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.  Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.  For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).