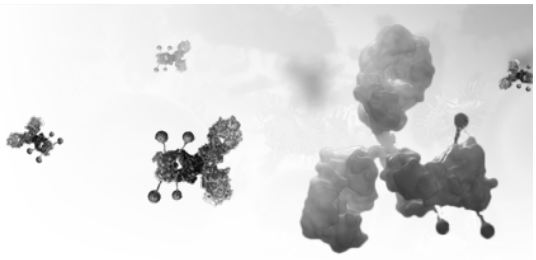

Mouse anti-Human CHRNB3 monoclonal antibody, clone 4H7 (CABT-B9966)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	CHRNB3 (NP_000740, 128 a.a. ~ 224 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	4H7
Conjugate	Unconjugated
Applications	WB,IF,sELISA,ELISA
Sequence Similarities	SLMTKVIVKSNGTVVWTPPASYKSSCTMDVTFFPFDRQNCSMKFGSWTYDGTMVDLILIN ENVDRKDFFDNGEWEILNAKGMKGNRRDGVYSYPFI*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are

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	(hetero)pentamers composed of homologous subunits. The subunits that make up the muscle and neuronal forms of nAChRs are encoded by separate genes and have different primary structure. There are several subtypes of neuronal nAChRs that vary based on which homologous subunits are arranged around the central channel. They are classified as alpha-subunits if, like muscle alpha-1 (MIM 100690), they have a pair of adjacent cysteines as part of the presumed acetylcholine binding site. Subunits lacking these cysteine residues are classified as beta-subunits (Groot Kormelink and Luyten, 1997 [PubMed 9009220]). Elliott et al. (1996) [PubMed 8906617] stated that the proposed structure for each subunit is a conserved N-terminal extracellular domain followed by 3 conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region.[supplied by OMIM, Apr 2010]
Keywords	CHRNB3; cholinergic receptor, nicotinic, beta 3 (neuronal); neuronal acetylcholine receptor subunit beta-3; cholinergic receptor, nicotinic, beta polypeptide 3; acetylcholine receptor, nicotinic, beta 3 (neuronal); acetylcholine receptor, neuronal nicotinic, beta-3 subunit;

GENE INFORMATION

Entrez Gene ID	1142
UniProt ID	Q05901
Pathway	Acetylcholine Binding And Downstream Events, organism-specific biosystem; Activation of Nicotinic Acetylcholine Receptors, organism-specific biosystem; Highly calcium permeable nicotinic acetylcholine receptors, organism-specific biosystem; Highly calcium permeable postsynaptic nicotinic acetylcholine receptors, organism-specific biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive ligand-receptor interaction, conserved biosystem
Function	acetylcholine binding; channel activity; extracellular ligand-gated ion channel activity; ion channel activity; nicotinic acetylcholine-activated cation-selective channel activity; receptor activity

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