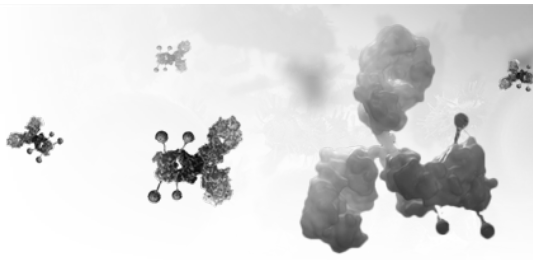

Human CHRNB3 blocking peptide (CDBP0797)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-CHRNB3 antibody
Antigen Description	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 (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.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

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Gene Name	CHRNB3 cholinergic receptor, nicotinic, beta 3 (neuronal) [Homo sapiens]
Official Symbol	CHRNB3
Synonyms	CHRNB3; cholinergic receptor, nicotinic, beta 3 (neuronal); cholinergic receptor, nicotinic, beta polypeptide 3; neuronal acetylcholine receptor subunit beta-3; acetylcholine receptor; nicotinic; beta 3 (neuronal); acetylcholine receptor, nicotinic, beta 3 (neuronal); acetylcholine receptor, neuronal nicotinic, beta-3 subunit;
Entrez Gene ID	1142
mRNA Refseq	NM_000749
Protein Refseq	NP_000740
UniProt ID	Q05901
Chromosome Location	8p11.21
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; Neuronal System, organism
Function	acetylcholine binding; acetylcholine-activated cation-selective channel activity; channel activity; extracellular ligand-gated ion channel activity; ion channel activity; receptor activity;

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