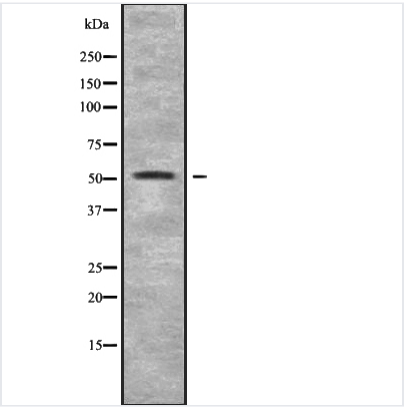
CHRNB3 Antibody

PRODUCT OVERVIEW

Product Name	CHRNB3, Antibody
Full Product Name	CHRNB3 Antibody
Product Gene Name	anti-CHRNB3 antibody
Molecular Weight	52,729 Da
OMIM	118508
3D Structure	ModBase 3D Structure for Q05901
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-CHRNB3 antibody	MBS8518707 is an antibody targeting CHRNB3. Also known as CHRNB3 Antibody.
Other Notes	Small volumes of anti-CHRNB3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CHRNB3 antibody
Western blot analysis CHRNB3 using Jurkat whole cell lysates

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHRNB3. It may not necessarily be applicable to this product.

NCBI GI #	4502835
NCBI GeneID	1142
NCBI Accession #	NP_000740.1
UniProt Primary Accession #	Q05901
UniProt Secondary Accession #	Q15827
UniProt Related Accession #	Q05901
GenBank Nucleotide #	NM_000749.4
NCBI Official Full Name	neuronal acetylcholine receptor subunit beta-3 isoform 1

NCBI Official Synonym Full Names	cholinergic receptor nicotinic beta 3 subunit
NCBI Official Symbol	CHRNB3
UniProt Protein Name	Neuronal acetylcholine receptor subunit beta-3
Protein Family	Neuronal acetylcholine receptor
UniProt Gene Name	CHRNB3
NCBI Protein Information	neuronal acetylcholine receptor subunit beta-3
NCBI Summary for CHRNB3	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.[supplied by OMIM, Apr 2010]
UniProt Comments for CHRNB3	After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.
Research Articles on CHRNB3	**1.** To gain a better understanding of the pathological processes underlying ND and ND-related behaviors and to promote the development of effective smoking cessation therapies, we here present the most recent studies concerning the genetic effects of the CHRNB3-CHRNA6 gene cluster in ND.
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