Immunoglobulin Lambda (IGL) Eukaryotic Protein

PRODUCT OVERVIEW

Product Name	Immunoglobulin Lambda (Igl), Protein
Full Product Name	Eukaryotic Immunoglobulin Lambda (Igl)
Product Gene Name	Igl protein
Product Synonym Names	IGL@ protein
Host	CHO Cell
Form/Format	Freeze-dried powder PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Purity/Purification	>97%
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	Predicted Molecular Mass: 26.4kDa Accurate Molecular Mass: 28kDa
Sequence Positions	Met1~Ser235
OMIM	118509
3D Structure	ModBase 3D Structure for P30926
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Source	Eukaryotic expression
Species	Human
Tag	N-terminal His Tag
Reconstitution	Reconstitute in PBS or others.
Product Categories/Family for Igl protein	Hematology
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for Igl protein	Positive Control, Immunogen, SDS-PAGE, Western Blot (WB)
Related Product Information for Igl protein	MBS2122485 is a protein targeting Igl. Also known as Eukaryotic Immunoglobulin Lambda (Igl). Host: CHO Cell.
Other Notes	Small volumes of Igl protein 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.

ADDITIONAL DETAILS

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

NCBI GI #	4502837
NCBI GeneID	1143
NCBI Accession #	NP_000741.1
UniProt Primary Accession #	P30926
UniProt Related Accession #	P30926
GenBank Nucleotide #	NP_000741.1
NCBI Official Full Name	neuronal acetylcholine receptor subunit beta-4 isoform 1
NCBI Official Synonym Full Names	cholinergic receptor nicotinic beta 4 subunit
NCBI Official Symbol	CHRNB4
UniProt Protein Name	Neuronal acetylcholine receptor subunit beta-4
Protein Family	Immunoglobulin lambda-like polypeptide
UniProt Gene Name	CHRNB4
UniProt Entry Name	ACHB4_HUMAN
NCBI Protein Information	neuronal acetylcholine receptor subunit beta-4
NCBI Summary for Igl	This gene is found within a conserved gene cluster and encodes one of the beta subunits of the nicotinic acetylcholine receptor (nAChRs) superfamily which form ligand-gated ion channels with a central pore that forms a cation channel. Neuronal nAChRs are pentameric structures that can be either homomeric or heteromeric, with heteromeric structures containing both alpha and beta subunits. Each subunit contains an extracellular amino terminus and four transmembrane domains. Nicotine is one of the agonists that binds to the receptor. Variants in this gene have been associated with nicotine dependence and lung cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2017]
UniProt Comments for Igl	nAChRB4: 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. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Beta- 4/CHRNB4 sub-subfamily. Protein type: Receptor, misc.; Membrane protein, multi-pass; Channel, ligand-gated; Membrane protein, integral; Channel, cation Chromosomal Location of Human Ortholog: 15q24 Cellular Component: nicotinic acetylcholine-gated receptor-channel complex; postsynaptic membrane; integral to plasma membrane; integral to membrane; plasma membrane; cell junction Molecular Function: acetylcholine receptor activity; nicotinic acetylcholine-activated cation-selective channel activity; ligand-gated ion channel activity Biological Process: regulation of smooth muscle contraction; synaptic transmission; regulation of action potential; smooth muscle contraction; regulation of neurotransmitter secretion; behavioral response to nicotine; locomotory behavior; ion transport; synaptic transmission involved in micturition; signal transduction; cation transport; synaptic transmission, cholinergic
Research Articles on Igl	**1.** Results indicate rs4887074 is associated with nicotinic receptor CHRNB4 expression, and along with two regulatory variants of nicotinic receptors CHRNA3 and CHRNA5, modulates the effect of rs16969968 on nicotine dependence risk.
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