

Recombinant Human Guanine Nucleotide-Binding Protein Subunit Beta-2-Like 1, His-tagged

Cat. No. GNB2L1-1375H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant humanGNB2L1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Description	GNB2L1 was originally identified as an anchoring protein for protein kinase C beta(PKCbeta), which it stabilises in the active state and anchors to membranes or functional sites. However, evidence has accumulated to support a central role of GNB2L1 in critical biological responses.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 5 mM DTT, 50% glycerol, 0.2M NaCl.
Molecular Weight	37.2 kDa (337 aa) confirmed by MALDI-TOF.
Purity	> 90% by SDS-PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHSSGLVPRGSH MTEQMTLRGT LKGHNGWVTQ IATTPQFPDM ILSASRDKTI IMWKLTRDETNYGIPQRALR GHSHFVSDVV ISSDGGQFALS GSWDGTLRLW DLTTGTTTRR FVGHTKDVLS VAFSSDNRQIVSGSRDKTIK

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

LWNTLGVCKY TVQDESHSEW VSCVRFSPNS SNPIIVSCGW DKLVKVVNLA
 NCKLKTNHIGHTGYLNTVTV SPDGSLCASG GKDGQAMLWD LNEGKHLYTL
 DGGDIINALC FSPNRYWLCA ATGPSIKIWDLEGKIIIVDEL KQEVISTSSK
 AEPPQCTSLA WSADGQTLFA GYTDNLVRVW QVTIGTR

Storage

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Pathways

CXCR4-mediatedsignaling events; Hypoxic and oxygen homeostasis regulation of HIF-1-alpha;IGF1 pathway; IL-2 Signaling Pathway; IL-3 Signaling Pathway; Measles;Regulation of Androgen receptor activity; Syndecan-2-mediated signalingevents; TNF receptor signaling pathway; TNF-alpha/NF-kB Signaling Pathway

GENE INFORMATION

Gene Name

GNB2L1 guanine nucleotidebinding protein (G protein), beta polypeptide 2-like 1 [[Homo sapiens](#)]

Official Symbol

GNB2L1

Synonyms

GNB2L1;guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1; H12.3; HLC-7; PIG21; RACK1; Gnb2-rs1;guanine nucleotide-binding protein subunit beta-2-like 1; OTTHUMP00000223704;OTTHUMP00000223870; OTTHUMP00000223891; OTTHUMP00000223893;OTTHUMP00000223900; OTTHUMP00000223902; OTTHUMP00000223930; OTTHUMP00000223931;lung cancer oncogene 7; proliferation-inducing gene 21; Receptor forActivated C Kinase 1; human lung cancer oncogene 7 protein; receptor ofactivated protein kinase C 1; cell proliferation-inducing gene 21 protein;guanine nucleotide-binding protein subunit beta-like protein 12.3; proteinhomologous to chicken B complex protein, guanine

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	nucleotide binding
Gene ID	10399
mRNA Refseq	NM_006098
Protein Refseq	NP_006089
MIM	176981
UniProt ID	P63244
Chromosome Location	5q35.3
Function	SH2domain binding; ion channel inhibitor activity; protein binding; proteinkinase C binding; protein phosphatase binding; protein tyrosine kinaseinhibitor activity; receptor binding; receptor tyrosine kinase binding

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