



Anti-GNB3 (full length) polyclonal antibody (DPAB-DC1395)

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

PRODUCT INFORMATION

Antigen Description	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit which belongs to the WD repeat G protein beta family. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
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Immunogen	GNB3 (AAH02454, 1 a.a. ~ 340 a.a) full-length recombinant protein with GST tag. The sequence is MGEMEQLRQAEQLKKQIADARKACAGVTLAELVSGLEVGRVQMRTRRTLGRHLAKIYA MHWATDSKLLVSASQDGKLIVWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNM CSIYNLKSREGNVKVSRELSAHTGYLSCCRFLDDNNIVTSSGDTTCALWDIETGQQKTVF VGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQFTTGHESDINAICFFPNGEA ICTGSDDASCRLFDLRADQELICFSHESIICSITSVAFSLSGRLLFAGYDDFNCNVWDSM KSERVGILSGHDNRVSLGLVTADGMAVATGSWDSFLKIWN
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Source/Host	Mouse
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Species Reactivity	Human
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Conjugate	Unconjugated
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Applications	ELISA,
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Size	50 µl
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Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	GNB3 guanine nucleotide binding protein (G protein), beta polypeptide 3 [Homo sapiens (human)]
Official Symbol	GNB3
Synonyms	GNB3; guanine nucleotide binding protein (G protein), beta polypeptide 3; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3; transducin beta chain 3; G protein, beta-3 subunit; hypertension associated protein; GTP-binding regulatory protein beta-3 chain; guanine nucleotide-binding protein G(I)/G(S)/G(T) beta subunit 3;
Entrez Gene ID	2784
Protein Refseq	NP_001284500
UniProt ID	E9PCP0
Chromosome Location	12p13
Pathway	ADP signalling through P2Y purinoceptor 1; Activation of G protein gated Potassium channels; Activation of Kainate Receptors upon glutamate binding; Alcoholism
Function	GTPase activity; GTPase binding; protein binding; signal transducer activity