

Rabbit GNB4 Polyclonal Antibody | anti-GNB4 antibody

GNB4 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289222	Rabbit	Human (Predicted Reactivity: Bovine, Hamster, Zebrafish, Drosophila, Mouse, Rat, Xenopus)	ELISA, Western Blot

PRODUCT SYNONYMS

GNB4; Polyclonal Antibody; GNB4 Antibody (Center); Guanine nucleotide-binding protein subunit beta-4; Transducin beta chain 4; anti-GNB4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Hamster, Zebrafish, Drosophila, Mouse, Rat, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This GNB4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-138 amino acids from the Central region of human GNB4.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.3 (varies by lot)
Sequence Positions	109-138
Sequence Length	340
Applicable Applications for anti-GNB4 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Clone Names	RB40986
Antigen Source	HUMAN
Function	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein- effector interaction.
Tissue Location	Strongly expressed in lung and placenta, whereas it is weakly expressed in brain and heart. Abundantly expressed in the axons and Schwann cells of peripheral nerves.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
GNB4 Antibody (Center) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the GNB4 antibody detected the GNB4 protein (arrow).



WB (Western Blot)
Anti-GNB4 Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 38 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-GNB4 antibody	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. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors.
Product Categories/Family for anti-GNB4 antibody	Cancer; Metabolism; Signal Transduction
References	Riemann, K., et al. Anticancer Res. 29(4):1271-1274(2009) Riemann, K., et al. Pharmacogenet. Genomics 18(11):999-1008(2008) Lamesch, P., et al. Genomics 89(3):307-315(2007) Roskopf, D., et al. FEBS Lett. 544 (1-3), 27-32 (2003) : Jiang, G., et al. Am. J. Physiol. Endocrinol. Metab. 284 (4), E671-E678 (2003) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	11055998
NCBI GeneID	59345
NCBI Accession #	NP_067642.1
NCBI GenBank Nucleotide #	NM_021629.3
UniProt Accession #	Q9HAV0; B3KMH5; D3DNR8
Molecular Weight	37567
NCBI Official Full Name	guanine nucleotide-binding protein subunit beta-4
NCBI Official Synonym Full Names	guanine nucleotide binding protein (G protein), beta polypeptide 4
NCBI Official Symbol	GNB4
NCBI Official Synonym Symbols	CMTD1F
NCBI Protein Information	guanine nucleotide-binding protein subunit beta-4
UniProt Protein Name	Guanine nucleotide-binding protein subunit beta-4
UniProt Gene Name	GNB4
UniProt Entry Name	GBB4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.