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GNB4 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19123c

Product Information

Application	WB, E
Primary Accession	Q9HAV0
Other Accession	O35353, P29387, P79959, P54311, P62874, P62873, P26308, Q6PH57, Q6TMK6, P62871, NP_067642.1
Reactivity	Human
Predicted	Bovine, Hamster, Zebrafish, Drosophila, Mouse, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40986
Calculated MW	37567
Antigen Region	109-138

Additional Information

Gene ID	59345
Other Names	Guanine nucleotide-binding protein subunit beta-4, Transducin beta chain 4, GNB4
Target/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.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GNB4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GNB4
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

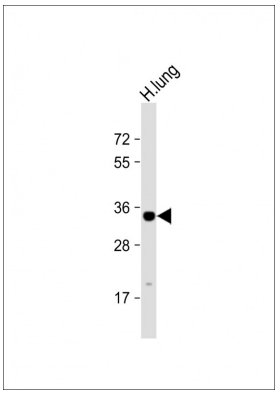
Background

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.

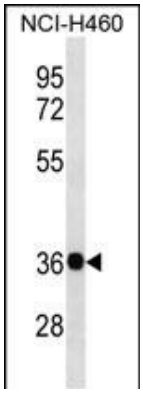
References

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)
Rosskopf, 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) :

Images



Anti-GNB4 Antibody (Center) at 1:1000 dilution + human lung lysate Lysates/proteins at 20 µg 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.



GNB4 Antibody (Center) (Cat. #AP19123c) western blot analysis in NCI-H460 cell line lysates (35ug/lane).This demonstrates the GNB4 antibody detected the GNB4 protein (arrow).