10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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, Canine, Rabbit, Chicken |
| **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 |

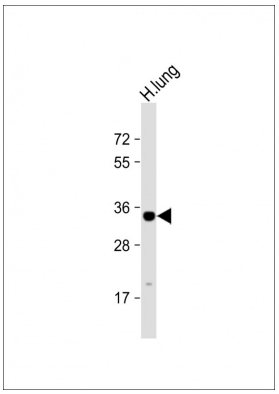
## Background

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.

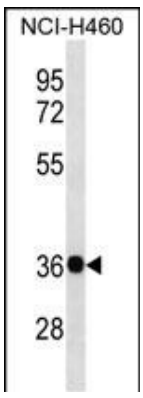
## References


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).


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.