

# GNB1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5036a

## Product Information

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<b>Application</b>	FC, WB, E
<b>Primary Accession</b>	<a href="#">P62873</a>
<b>Other Accession</b>	<a href="#">P79959</a> , <a href="#">P54311</a> , <a href="#">P62874</a> , <a href="#">Q6PH57</a> , <a href="#">Q6TMK6</a> , <a href="#">P62871</a>
<b>Reactivity</b>	Human
<b>Predicted</b>	Bovine, Hamster, Zebrafish, Mouse, Rat, Xenopus
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB26119
<b>Calculated MW</b>	37377
<b>Antigen Region</b>	1-30

## Additional Information

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<b>Gene ID</b>	2782
<b>Other Names</b>	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1, Transducin beta chain 1, GNB1
<b>Target/Specificity</b>	This GNB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GNB1.
<b>Dilution</b>	FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GNB1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GNB1 ( <a href="#">HGNC:4396</a> )
<b>Function</b>	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems

(PubMed:[29925951](#), PubMed:[33762731](#), PubMed:[34239069](#), PubMed:[35610220](#), PubMed:[35714614](#), PubMed:[35835867](#), PubMed:[36087581](#), PubMed:[36989299](#), PubMed:[37327704](#), PubMed:[37935376](#), PubMed:[37935377](#), PubMed:[37963465](#), PubMed:[37991948](#), PubMed:[38168118](#), PubMed:[38552625](#)). The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction (PubMed:[29925951](#), PubMed:[33762731](#), PubMed:[34239069](#), PubMed:[35610220](#), PubMed:[35714614](#), PubMed:[35835867](#), PubMed:[36087581](#), PubMed:[36989299](#), PubMed:[37327704](#), PubMed:[37935376](#), PubMed:[37935377](#), PubMed:[37963465](#), PubMed:[38168118](#), PubMed:[38552625](#)).

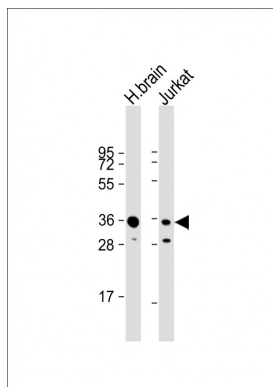
## Background

GNB1 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. This protein uses alternative polyadenylation signals.

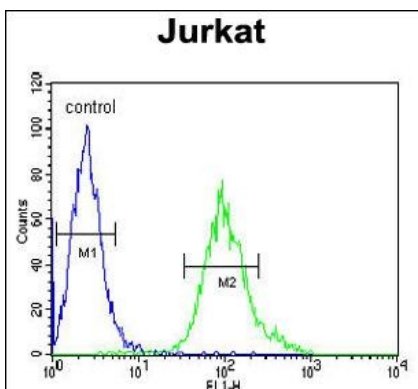
## References

Ahmed, S.M., et al. J. Biol. Chem. 285(9):6538-6551(2010)  
 Gutman, O., et al. J. Biol. Chem. 285(6):3905-3915(2010)  
 Knezevic, N., et al. J. Exp. Med. 206(12):2761-2777(2009)

## Images



All lanes : Anti-GNB1 Antibody (N-term) at 1:1000 dilution  
 Lane 1: human brain lysate Lane 2: Jurkat whole cell lysate  
 Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa  
 Blocking/Dilution buffer: 5% NFDM/TBST.



GNB1 Antibody (N-term) (Cat. #AP5036a) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Citations

- [Ciliary genes arl13b, ahi1 and cc2d2a differentially modify expression of visual acuity phenotypes but do not enhance retinal degeneration due to mutation of cep290 in zebrafish.](#)
- [Pathogenic Mutations in Retinitis Pigmentosa 2 Predominantly Result in Loss of RP2 Protein Stability in Human and Zebrafish.](#)
- [Knockout of RP2 decreases GRK1 and rod transducin subunits and leads to photoreceptor degeneration in zebrafish.](#)

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