

For Research Use Only

# GNB1 Polyclonal antibody

Catalog Number: 10247-2-AP

Featured Product

7 Publications



## Basic Information

<b>Catalog Number:</b> 10247-2-AP	<b>GenBank Accession Number:</b> BC004186	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2782	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:20-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> guanine nucleotide binding protein (G protein), beta polypeptide 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 37 kDa	
<b>Immunogen Catalog Number:</b> AG0313	<b>Observed MW:</b> 37 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, IP, WB	<b>WB :</b> HeLa cells, Jurkat cells, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human pancreas cancer tissue, human gliomas tissue
<b>Cited Species:</b> human, mouse	<b>IF :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

GNB1(Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1) belongs to the WD repeat G protein beta family. The guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems and the beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. GNB1 can form dimers with all gamma subunits analyzed(PMID:12782285).

## Notable Publications

Author	Pubmed ID	Journal	Application
ZhiWei Hu	35192430	Bioengineered	WB
Saba LM	21185315	Neuropharmacology.	WB
Fangtao Li	34860863	PLoS Pathog	IF,IP

## Storage

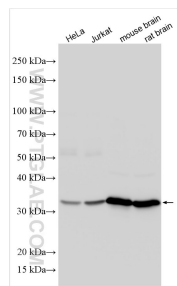
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

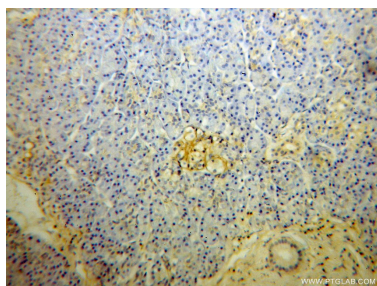
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

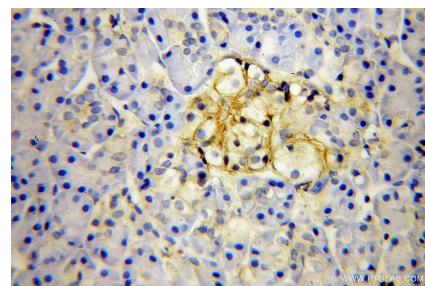
## Selected Validation Data



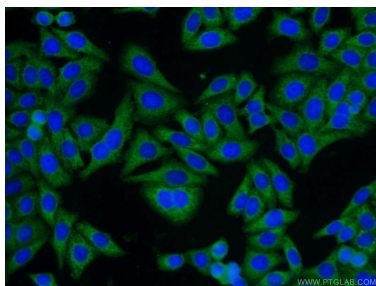
Various lysates were subjected to SDS PAGE followed by western blot with 10247-2-AP (GNB1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 10247-2-AP (GNB1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 10247-2-AP (GNB1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 10247-2-AP (GNB1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).