

# GNB3 Monoclonal antibody

Catalog Number: 67497-1-Ig

## Basic Information

<b>Catalog Number:</b> 67497-1-Ig	<b>GenBank Accession Number:</b> BC002454	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 2000 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2784	<b>CloneNo.:</b> 2B6E1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P16520	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> guanine nucleotide binding protein (G protein), beta polypeptide 3	
<b>Immunogen Catalog Number:</b> AG7050	<b>Calculated MW:</b> 37 kDa	
	<b>Observed MW:</b> 35-37 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** hTERT-RPE1 cells, HepG2 cells, L02 cells, pig brain tissue, rat retina tissue, Raji cells, Ramos cells, Daudi cells, RKO cells, Karpas-422 cells, IMR-32 cells, Rat brain cells, Mouse brain cells, rat brain tissue, mouse brain tissue

**IHC :** human liver cancer tissue,

**IF/ICC :** HepG2 cells,

## Background Information

Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems, by integrating signals between receptors and effector proteins. G proteins are composed of an alpha, a beta, and a gamma subunit. This gene encodes a 34 kD beta subunit, being expressed in all tissues. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors.

## Storage

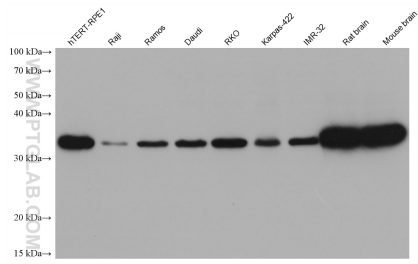
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

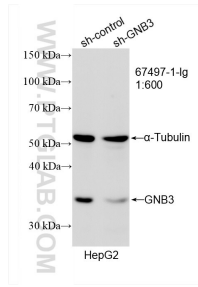
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

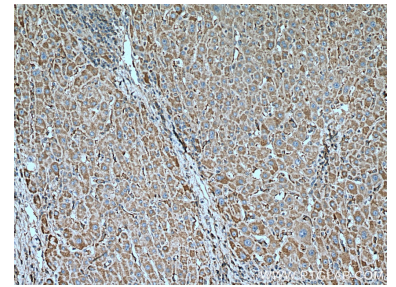
## Selected Validation Data



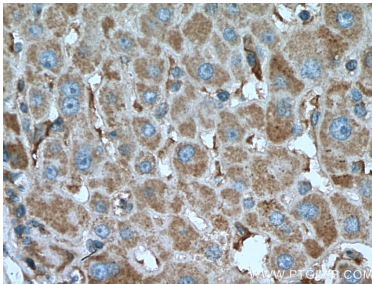
Various lysates were subjected to SDS PAGE followed by western blot with 67497-1-Ig (GNB3 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



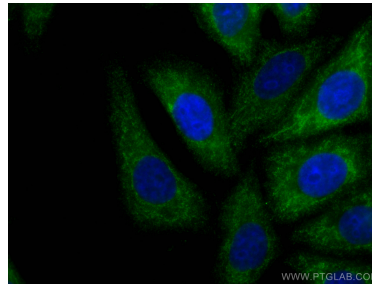
WB result of GNB3 antibody (67497-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-GNB3 transfected HepG2 cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67497-1-Ig (GNB3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67497-1-Ig (GNB3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GNB3 antibody (67497-1-Ig, Clone: 2B6E1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).