

For Research Use Only

# GNB1 Recombinant monoclonal antibody

Catalog Number:87127-3-RR



## Basic Information

<b>Catalog Number:</b> 87127-3-RR	<b>GenBank Accession Number:</b> BC004186	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 2782	<b>CloneNo.:</b> 252318D6
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P62873	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IF/ICC: 1:250-1:1000
<b>Immunogen Catalog Number:</b> AG0313	<b>Full Name:</b> guanine nucleotide binding protein (G protein), beta polypeptide 1	
	<b>Calculated MW:</b> 37 kDa	
	<b>Observed MW:</b> 35 kDa	

## Applications

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

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

**Positive Controls:**

**WB :** HeLa cells, HepG2 cells, Jurkat cells, T-47D cells, mouse brain tissue, rat brain tissue

**IF/ICC :** HepG2 cells,

## 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).

## 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

For technical support and original validation data for this product please contact:

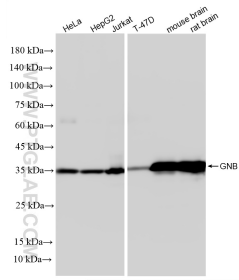
T: 4006900926

E: Proteintech-CN@ptglab.com

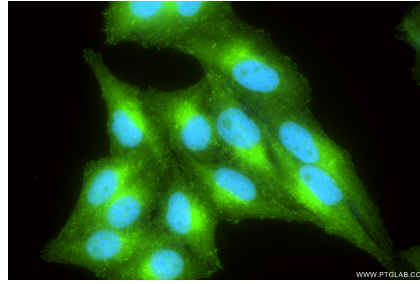
W: ptgcn.com

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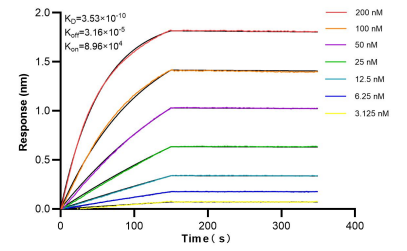
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87127-3-RR (GNB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using GNB1 antibody (87127-3-RR, Clone: 252318D6) at dilution of 1:500 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Bi-layer interferometry (BLI) kinetic assays of 87127-3-RR against Human GNB1 were performed. The affinity constant is 0.353 nM.