

## Anti-GNB1 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human,Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 37 kDa. Actual: 37 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	1. Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-G protein beta subunit GI Polyclonal Antibody, Unconjugated (TMAB-06607) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
	2. Tissue/cell: mouse lung tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-G protein beta subunit GI Polyclonal Antibody, Unconjugated (TMAB-06607) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
	3. Sample: Cerebrum (Mouse) Lysate at 40 µg Primary: Anti-GNB1 (TMAB-06607) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kD Observed band size: 37 kD
	4. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (GNB1) Polyclonal Antibody, Unconjugated (TMAB-06607) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
Application:	WB,IHC-P,IHC-Fr,IF
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human G protein beta subunit GI  
Antigen Species: Human  
Gene ID: 2782  
Uniprot ID: P62873

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### Research 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. GNB1 is a beta subunit. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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