

Anti-GNB2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

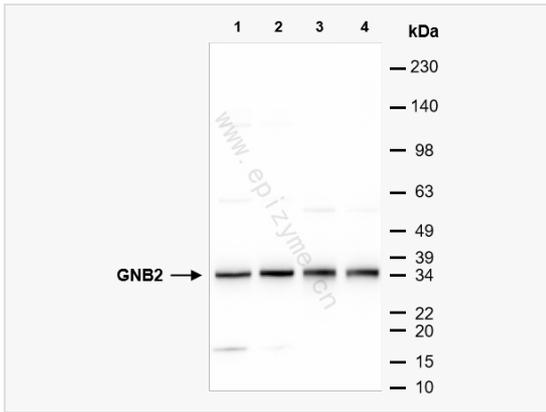
Catalog # R014231

Product Information

Application	ELISA, IF (Cell)/ICC, WB, IHC-P/IF (Tissue-P)
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	17I18S83
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human GNB2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-GNB2 Rabbit mAb [17I18S83] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	G protein beta 2 subunit, G protein subunit beta 2, G protein subunit beta-2, GBB2_HUMAN, Gnb2, Gnb2I1, Guanine nucleotide binding protein beta 2 subunit, Guanine nucleotide binding protein G I G S G T beta 2 subunit 2, Guanine nucleotide binding protein G protein beta polypeptide 2, Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-2, OTTHUMP00000174601, OTTHUMP00000174602, RACK1, Receptor for activated C kinase, Receptor of activated protein kinase C 1, Signal transducing guanine nucleotide binding regulatory protein beta, Transducin beta chain 2.
Calculated MW	Calculated MW: 37 kDa; Observed MW: 35 kDa
Uniprot ID	P62879
Gene ID	2783
Background	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.
Cellular Location	Cytoplasm > perinuclear region.



Western Blot - Anti-GNB2 Rabbit mAb [17118S83]

All lanes: R014231 at 1:1,000 dilution

Lane 1: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 3: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

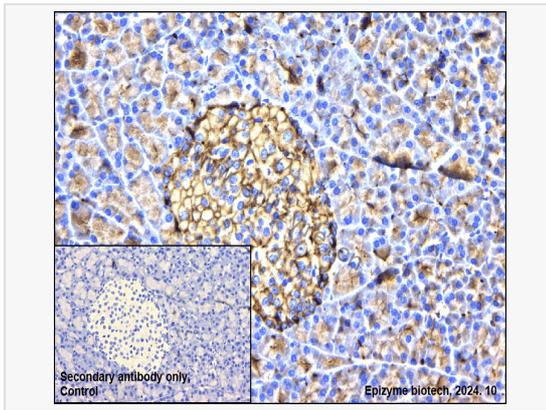
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 37 kDa

Observed band size: 35 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-GNB2 Rabbit mAb [17118S83]

Sample: Paraformaldehyde-fixed, paraffin embedded rat pancreas tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014231 at 1:200 dilution

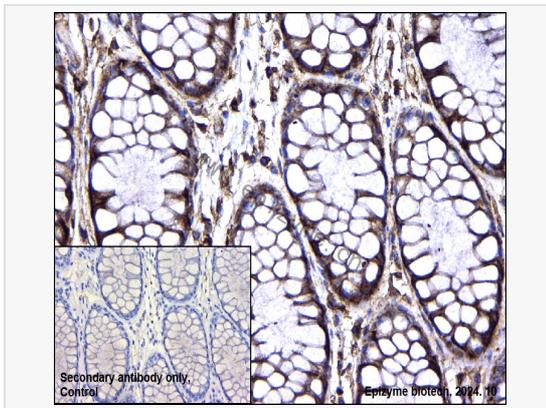
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-GNB2 Rabbit mAb [17118S83]

Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014231 at 1:200 dilution

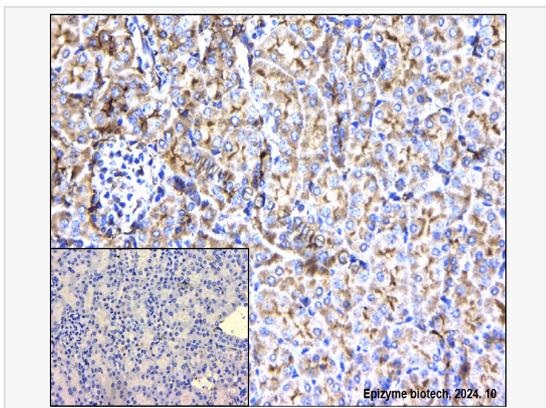
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-GNB2 Rabbit mAb [17118S83]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014231 at 1:200 dilution

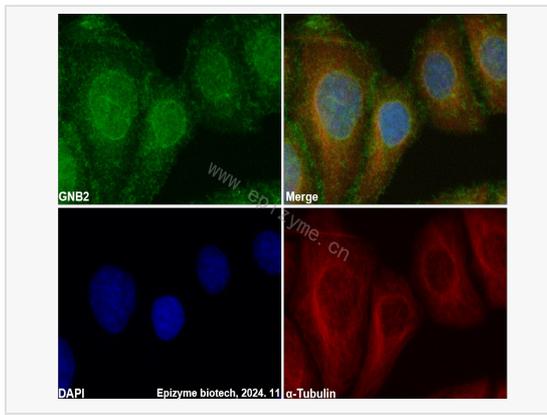
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-GNB2 Rabbit mAb [17118S83]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014231 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).