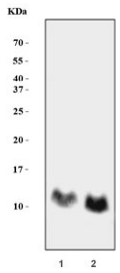
GNG4 Antibody for WB / G Protein Gamma 4 Western Blot Antibody [clone 7B6] (RQ6992)

Catalog No.	Formulation	Size
RQ6992	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	7B6
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P50150
Applications	Western Blot : 0.5-1 ug/ml
Limitations	This GNG4 antibody is available for research use only.



GNG4 Antibody for WB / G Protein Gamma 4 Western Blot Antibody. Western blot analysis in rat brain and mouse brain lysates. Lane 1: rat brain lysate, Lane 2: mouse brain lysate. A band is detected at approximately 12 kDa, consistent with the predicted molecular weight of G protein subunit gamma 4 / GNG4. The clear low molecular weight band and strong signal in brain tissues align with the known neuronal enrichment of GNG4 and support its role as a membrane-associated component of the G protein beta-gamma complex involved in GPCR-mediated signaling.

Description

G protein subunit gamma 4 (GNG4) is a membrane-associated signaling protein that functions within the heterotrimeric G protein complex to regulate G protein-coupled receptor pathways. The GNG4 Antibody for WB is specifically developed for western blot applications, enabling reliable detection of GNG4 in denatured protein lysates and supporting studies focused on protein size, expression levels, and signaling pathway analysis.

GNG4 antibody for WB, also known as G Protein Gamma 4 antibody or Guanine nucleotide-binding protein subunit gamma-4 antibody, recognizes a small gamma subunit that forms the G beta-gamma complex and directly regulates downstream effectors including ion channels, MAPK signaling components, and phospholipase pathways. Its small molecular weight and membrane association make western blot analysis particularly important for confirming band specificity and resolving GNG4 from other gamma subunits.

This mouse monoclonal GNG4 Antibody for WB was generated against a human peptide sequence immunogen, providing defined epitope recognition and consistent band detection in western blot assays. Peptide-derived monoclonal antibodies are especially valuable in WB workflows due to their ability to produce sharp, well-defined bands with reduced background. Western blot testing shows clear detection of GNG4 in mouse and rat brain lysates, consistent with its known enrichment in neuronal tissues and GPCR-driven signaling environments.

GNG4 localizes to the cytoplasmic face of the plasma membrane, where it stabilizes G beta subunits and facilitates receptor-mediated signaling. It is expressed in neural tissues, immune cells, and epithelial compartments, with increasing interest in its role in tumor biology, including glioma progression and colorectal cancer signaling networks. Western blot analysis of GNG4 is widely used to study these pathways due to the proteinÃ¢Â€Â™s small size and involvement in dynamic signaling complexes.

A mouse monoclonal GNG4 Antibody for WB is suitable for detecting GNG4 protein expression in western blot experiments requiring high specificity, clean band resolution, and reproducible results across species such as mouse and rat. This format is particularly well suited for studies of GPCR signaling, neuronal protein expression, and comparative protein analysis in research settings.

Application Notes

Optimal dilution of the GNG4 Antibody for WB / G Protein Gamma 4 Western Blot Antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids M1-D52) was used as the immunogen for the GNG4 Antibody for WB / G Protein Gamma 4 Western Blot Antibody.

Storage

After reconstitution, the GNG4 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

G Protein Gamma 4 antibody, Guanine nucleotide binding protein gamma 4 antibody, G gamma 4 antibody, GNG4 protein antibody