

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6)
Catalog # ABO16257**Specification****Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Product Information**

Application	WB
Primary Accession	P50150
Host	Mouse
Isotype	Mouse IgG1
Reactivity	Rat, Mouse
Clonality	Monoclonal
Format	Lyophilized

Description

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) . Tested in WB applications. This antibody reacts with Mouse, Rat.

Reconstitution

Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Additional Information

Gene ID 2786

Other Names

Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4, GNG4, GNGT4

Calculated MW

12 kDa KDa

Application Details

Western blot, 0.25-0.5 µg/ml, Mouse, Rat

Contents

Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na₂HPO₄.

Immunogen

E.coli-derived human GNG4 recombinant protein (Position: M1-D52).

Purification

Immunogen affinity purified.

Storage

At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Protein Information

Name GNG4

Synonyms GNGT4

Function

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

Cell membrane; Lipid-anchor; Cytoplasmic side

Tissue Location

Brain, kidney, pancreas, skeletal muscle and faintly in cardiac muscle

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Images

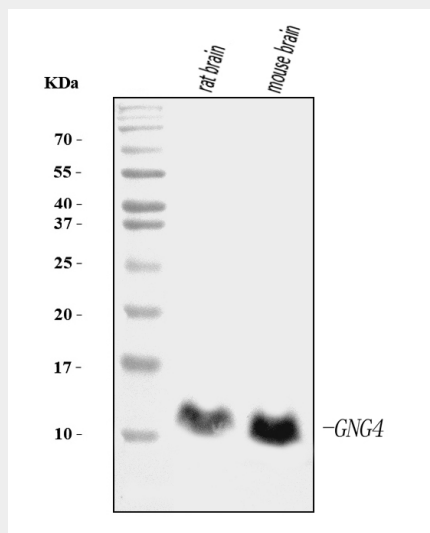


Figure 1. Western blot analysis of GNG4 using anti-GNG4 antibody (M13925).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates,

Lane 2: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90

minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-GNG4 antigen affinity purified monoclonal antibody (Catalog # M13925) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for GNG4 at approximately 12 kDa. The expected band size for GNG4 is at 12 kDa.

Anti-GNG4 Antibody Picoband™ (monoclonal, 7B6) - Background

Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-4 is a protein that in humans is encoded by the GNG4 gene. This gene encodes the gamma subunit of the heterotrimeric G-proteins that are comprised of alpha, beta and gamma subunits. Upon activation by G protein-coupled receptors, the beta-gamma heterodimer dissociates from the alpha subunit to activate downstream signaling events. Alternate splicing results in multiple transcript variants.