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antibody and ELISA experts

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Anti-GLIPR2 Antibody Picoband®

Catalog Number: A10232-1

About GLIPR2

The GLIPR2 gene, also known as Golgi-associated plant pathogenesis-related protein 2, encodes a protein localized to the Golgi apparatus and involved in diverse cellular processes, including apoptosis, autophagy, and vesicular trafficking. GLIPR2 has been implicated in regulating cell growth, differentiation, and survival, with potential roles in cancer development and progression. Additionally, GLIPR2 expression has been linked to neurodegenerative disorders and inflammatory responses. Its precise molecular functions and downstream signaling pathways are still being elucidated, but it represents a promising target for therapeutic interventions in various diseases. Understanding the biological significance of GLIPR2 is essential for deciphering its role in cellular homeostasis and disease pathogenesis.

Overview

Product Name	Anti-GLIPR2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GLIPR2 Antibody Picoband® catalog # A10232-1. Tested in WB, IHC, IP, FCM, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IP, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	Q9H4G4

Technical Details

Immunogen	E.coli-derived human GLIPR2 recombinant protein (Position: M1-K154). Human GLIPR2 shares 93.5% amino acid (aa) sequence identity with mouse GLIPR2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

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Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Rat Immunoprecipitation, 0.5-2 ug/ml, Human Flow Cytometry (Fixed), 1-3 ug /1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, -

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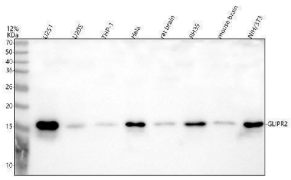
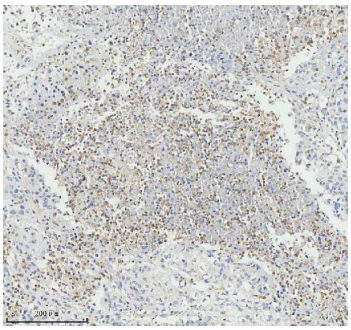
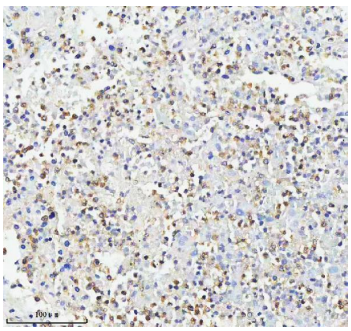
Anti-GLIPR2 Antibody Picoband® (A10232-1) Images



Western blot analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1). 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: human U251 whole cell lysates, Lane 2: human U20S whole cell lysates, Lane 3: human THP-1 whole cell lysates, Lane 4: human Hela whole cell lysates, Lane 5: rat brain tissue lysates, Lane 6: rat RH35 whole cell lysates, Lane 8: mouse brain tissue lysates, Lane 9: mouse NIH/3T3 whole cell 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 rabbit anti-GLIPR2 antigen affinity purified polyclonal antibody (Catalog # A10232-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GLIPR2 at approximately 17 kDa. The expected band size for GLIPR2 is at 17 kDa.



IHC analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1). GLIPR2 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GLIPR2 Antibody (A10232-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1). GLIPR2 was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GLIPR2 Antibody (A10232-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

IHC analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1). GLIPR2 was detected in a paraffin-embedded

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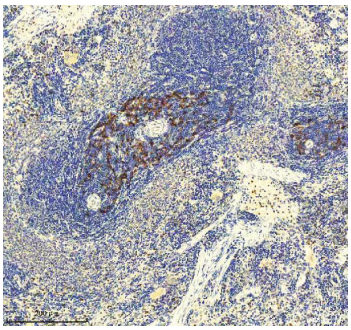
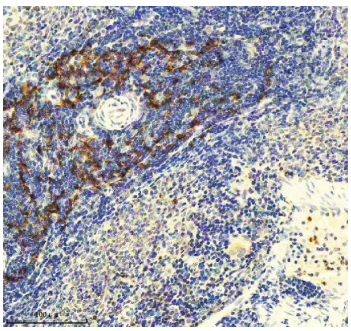
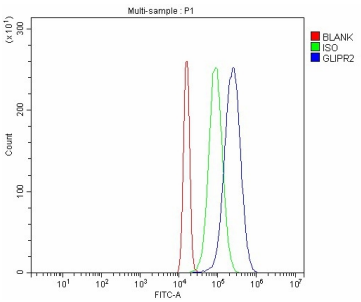


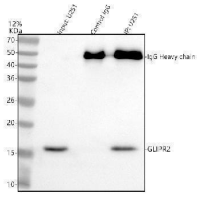
section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GLIPR2 Antibody (A10232-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1). GLIPR2 was detected in a paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-GLIPR2 Antibody (A10232-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



Flow Cytometry analysis of THP-1 cells using anti-GLIPR2 antibody (A10232-1). Overlay histogram showing THP-1 cells stained with A10232-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GLIPR2 Antibody (A10232-1, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



Immunoprecipitating GLIPR2 in U251 whole cell lysate.Western blot analysis of GLIPR2 using anti-GLIPR2 antibody (A10232-1).Lane 1: U251 whole cell lysates (30ug)Lane 2: Rabbit control IgG instead of anti-GLIPR2 antibody in U251 whole cell lysate.Lane 3: anti-GLIPR2 antibody (2ug) + U251 whole cell lysate (500ug)After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GLIPR2 antigen affinity purified polyclonal antibody (A10232-1) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for GLIPR2 at approximately 17 kDa. The expected band size for GLIPR2 is at 17 kDa.

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For Research Use Only. Not for use in diagnostic procedures.