

Mouse Gpr161 Antibody (1A8), mAb, Mouse

PRODUCT INFORMATION

Description

The protein encoded by this gene is an orphan G protein-coupled receptor whose ligand is unknown. This gene is overexpressed in triple-negative breast cancer, and disruption of this gene slows the proliferation of basal breast cancer cells. Therefore, this gene is a potential drug target for triple-negative breast cancer. It's the key negative regulator of Shh signaling, which promotes the processing of GLI3 into GLI3R during neural tube development. It is recruited by TULP3 and the IFT-A complex to primary cilia and acts as a regulator of the PKA-dependent basal repression machinery in Shh signaling by increasing cAMP levels, which leads to PKA-dependent processing of GLI3 into GLI3R and represses the Shh signaling. In presence of SHH, it's removed from primary cilia and is internalized into recycling endosomes, preventing its activity and allowing activation of the Shh signaling.

Specificity

The product is specific for Gpr161. This antibody binds with recombinant mouse Gpr161 protein and Endogenous human Gpr161 in western blot.

Concentration

0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide. (It may be customized for bulk orders.)

Note

GenScript can customize this product per the customer's request including product size, buffer components, etc.

Reconstitution

Reconstitute the lyophilized antibody with deionized water (or equivalent) to a final concentration of 0.5 mg/ml.

Storage

The lyophilized product remains stable up to 1 year at -20 °C from date of receipt. Upon reconstitution, it can be stored for 2-3 weeks at 2-8 °C or for up to 12 months at -20 °C or below. Avoid repeated freezing and thawing cycles.

Applications

Working concentrations for specific applications should be determined by the investigators. The appropriate concentration may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA detection: 1 µg/ml

Western blot: 5 µg/ml

Cat. No.: A01937-40

Host: Mouse

Size: 40 µg

Ig Subclass: IgG2b,k

Clone: 1A8

Immunogen: Recombinant Mouse Gpr161

UniProt Accession: B2RPY5

Gene ID: 240888

Purification: Protein A affinity column

Conjugation: Unconjugated

Version: 11/2/2017

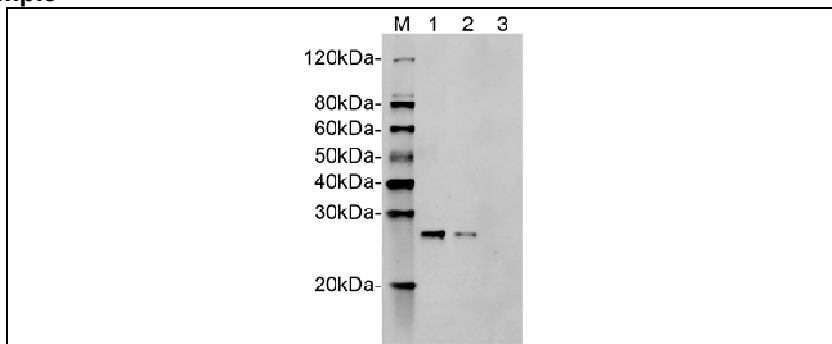
** For non-clinical research use only. **

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Other applications: user-optimized

Example



Western Blot of Mouse Gpr161 recombinant protein with **Mouse Gpr161 Antibody (1A8)** (GenScript, A01937-40). The different concentration of Mouse Gpr161 recombinant protein indicates the high specificity and sensitivity of the antibody.

Lane 1: 100 ng Mouse Gpr161 recombinant protein

Lane 2: 50 ng Mouse Gpr161 recombinant protein

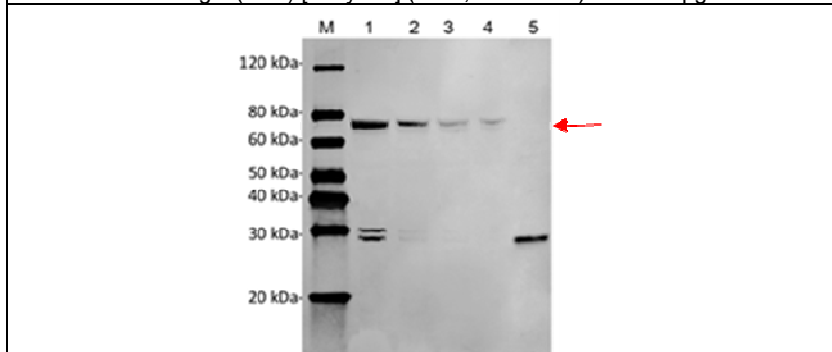
Lane 3: 10 ng Mouse Gpr161 recombinant protein

Primary Antibody:

Mouse Gpr161 Antibody (1A8) (GenScript, A01937-40) 5 µg/ml

Secondary Antibody:

Goat anti-Mouse IgG (H&L) [IRDye⁸⁰⁰] (Licor,926-32211) 0.125 µg/ml



Western Blot of HepG2 cell lysates with **Mouse Gpr161 Antibody (1A8)** (GenScript, A01937-40). The different concentration of cell lysates indicates the high specificity and sensitivity of the antibody.

Lane 1: 100 µg HepG2 cell Lysate

Lane 2: 50 µg HepG2 cell Lysate

Lane 3: 25 µg HepG2 cell Lysate

Lane 4: 10 µg HepG2 cell Lysate

Lane 5: 50 ng Mouse Gpr161 recombinant protein

Primary Antibody:

Mouse Gpr161 Antibody (1A8) (GenScript, A01937-40) 5 µg/ml

Secondary Antibody:

Goat anti-Mouse IgG (H&L) [IRDye⁸⁰⁰] (Licor,926-32211) 0.125 µg/ml

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