

GLIPR1L1 (D-13): sc-167984

BACKGROUND

The GLIPR1 (glioma pathogenesis-related 1) family consists of three core members, designated GLIPR1, GLIPR1L1 (GLIPR1-like protein 1) and GLIPR1L2, which form a distinct subgroup within the cysteine-rich secretory protein (CRISP), antigen 5 and pathogenesis-related 1 (CAP) superfamily. Each member of the CAP superfamily has a conserved N-terminal CAP domain and a distinct C-terminal extension. CAP superfamily proteins are hypothesized to have roles in immunity, cell adhesion, carcinogenesis and male fertility. GLIPR1L1 is a 242 amino acid secreted protein. Highly expressed in testis, GLIPR1L1 exists as two isoforms produced by alternative splicing events. GLIPR1L1 is encoded by a gene that maps to human chromosome 12q21.1 and mouse chromosome 10 D2.

REFERENCES

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- Chilukamari, L., et al. 2007. Hypomethylation and aberrant expression of the glioma pathogenesis-related 1 gene in Wilms tumors. *Neoplasia* 9: 970-978.
- Li, L., et al. 2008. Glioma pathogenesis-related protein 1 exerts tumor suppressor activities through proapoptotic reactive oxygen species-c-Jun-NH₂ kinase signaling. *Cancer Res.* 68: 434-443.
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- Bonura, A., et al. 2010. Cloning and expression of a novel component of the CAP superfamily enhanced in the inflammatory response to LPS of the ascidian *Ciona intestinalis*. *Cell Tissue Res.* 342: 411-421.
- Gibbs, G.M., et al. 2010. Glioma pathogenesis-related 1-like 1 is testis enriched, dynamically modified, and redistributed during male germ cell maturation and has a potential role in sperm-oocyte binding. *Endocrinology* 151: 2331-2342.
- Tam, M., et al. 2010. Examining Hedgehog pathway genes GLI3, SHH, and PTCH1 and the p53 target GLIPR1/GLIPR1L1/GLIPR1L2 gene cluster using fluorescence *in situ* hybridization uncovers GLIPR1/GLIPR1L1/GLIPR1L2 deletion in 9% of patients with multiple myeloma. *J. Assoc. Genet. Technol.* 36: 111-114.
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CHROMOSOMAL LOCATION

Genetic locus: GLIPR1L1 (human) mapping to 12q21.1.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

SOURCE

GLIPR1L1 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of GLIPR1L1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167984 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GLIPR1L1 (D-13) is recommended for detection of GLIPR1L1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with GLIPR1L2 or GLIPR1L3.

Suitable for use as control antibody for GLIPR1L1 siRNA (h): sc-95975, GLIPR1L1 shRNA Plasmid (h): sc-95975-SH and GLIPR1L1 shRNA (h) Lentiviral Particles: sc-95975-V.

Molecular Weight of GLIPR1L1 isoforms: 27/26 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.