

DLG5 (C-19): sc-46919

BACKGROUND

Membrane-associated guanylate kinase (MAGUK) family members function as molecular scaffolds for the assembly of multiprotein complexes localizing to the plasma membrane. Several mammalian proteins related to the *Drosophila* tumor suppressor discs-large (dlg) gene product belong to the MAGUK family. MAGUK family members include the postsynaptic proteins PSD-93, DLG5, Pals1, PSD-95 (SAP 90), densin-180, NE-dlg (SAP 120), dlg-1 (SAP 97), GKAP (GK-associated protein), p55, the tight junction associated proteins ZO-1-3 and the caspase-associated recruitment domain (CARD) proteins CARD6, CARD8-12 and CARD14. DLG5, a cell-cell junction peripheral membrane protein, plays an important role in maintaining the structure of epithelial cell plasma membranes. It also plays an important part in transmitting extracellular signals to the cytoskeleton and the membrane. DLG5, which can interact with MPP1 and CTNNB1, is primarily expressed in prostate and placenta.

REFERENCES

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4. Stoll, M., et al. 2004. Genetic variation in DLG5 is associated with inflammatory bowel disease. Nat. Genet. 36: 476-480.
5. Yamazaki, K., et al. 2004. Association analysis of SLC22A4, SLC22A5 and DLG5 in Japanese patients with Crohn disease. J. Hum. Genet. 49: 664-668.
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7. Daly, M.J., et al. 2005. Association of DLG5 R30Q variant with inflammatory bowel disease. Eur. J. Hum. Genet. 14: 259-260.
8. Taniuchi, K., et al. 2005. Downregulation of RAB6KIFL/KIF20A, a kinesin involved with membrane trafficking of discs-large homologue 5, can attenuate growth of pancreatic cancer cell. Cancer Res. 65: 105-112.

CHROMOSOMAL LOCATION

Genetic locus: DLG5 (human) mapping to 10q22.3; Dlg5 (mouse) mapping to 14 A3.

SOURCE

DLG5 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DLG5 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-46919 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DLG5 (C-19) is recommended for detection of DLG5 of mouse and 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).

DLG5 (C-19) is also recommended for detection of DLG5 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for DLG5 siRNA (h): sc-60541, DLG5 siRNA (m): sc-60542, DLG5 shRNA Plasmid (h): sc-60541-SH, DLG5 shRNA Plasmid (m): sc-60542-SH, DLG5 shRNA (h) Lentiviral Particles: sc-60541-V and DLG5 shRNA (m) Lentiviral Particles: sc-60542-V.

Molecular Weight of DLG5: 200 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.



Try **DLG5 (E-11): sc-374493** or **DLG5 (A-11): sc-374594**, our highly recommended monoclonal alternatives to DLG5 (C-19).