

MPP3 (H-58): sc-292581

BACKGROUND

MPP3, also known as Discs large homolog 3 (DLG3), is a 585 amino acid protein belonging to the MAGUK family. Proteins in the MAGUK family, including CASK, ZO-1, ZO-2, p55 and MPP2, are known to regulate cell proliferation, intracellular junctions and signaling pathways by interacting with the cytoskeleton. MPP3 contains one guanylate kinase-like domain, one PDZ domain, two L27 domains and one SH3 domain. Via the PDZ domain, MPP3 interacts with the C-terminus of TSLC1. MPP3 has also been found to interact with SR-2A and SR-4.

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CHROMOSOMAL LOCATION

Genetic locus: MPP3 (human) mapping to 17q21.31; Mpp3 (mouse) mapping to 11 D.

SOURCE

MPP3 (H-58) is a rabbit polyclonal antibody raised against amino acids 51-108 mapping near the N-terminus of MPP3 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.

APPLICATIONS

MPP3 (H-58) is recommended for detection of MPP3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

MPP3 (H-58) is also recommended for detection of MPP3 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for MPP3 siRNA (h): sc-75817, MPP3 siRNA (m): sc-75818, MPP3 shRNA Plasmid (h): sc-75817-SH, MPP3 shRNA Plasmid (m): sc-75818-SH, MPP3 shRNA (h) Lentiviral Particles: sc-75817-V and MPP3 shRNA (m) Lentiviral Particles: sc-75818-V.

Molecular Weight of MPP3: 70 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

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.