

MPP3 (PZ-2D21): sc-134390

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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

MPP3 (PZ-2D21) is a mouse monoclonal antibody raised against recombinant MPP3 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG₁ kappa light chain in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

MPP3 (PZ-2D21) 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

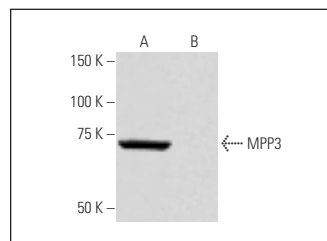
Molecular Weight of MPP3: 70 kDa.

Positive Controls: human MPP3 transfected 293T whole cell lysate.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



MPP3 (PZ-2D21): sc-134390. Western blot analysis of MPP3 expression in human MPP3 transfected (A) and non-transfected (B) 293T whole cell lysates.

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 for detailed protocols and support products.