SANTA CRUZ BIOTECHNOLOGY, INC.

# MPP3 (N-15): sc-74684

SANTA CRUZ BIOTECHNOLOGY

*The Power to Question*

## 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, MMP3 interacts with the C-terminus of TSLC1. MMP3 has also been found to interact with SR-2A and SR-4.

## REFERENCES


1. Smith, S.A., et al. 1996. Isolation of a gene (DLG3) encoding a second member of the discs-large family on chromosome 17q12-q21. Genomics 31: 145-150.
2. Online Mendelian Inheritance in Man, OMIM™. 1999. Johns Hopkins University, Baltimore, MD. MIM Number: 601114. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
3. Kim, M., et al. 2001. Proteomic and functional evidence for a P2X7 receptor signalling complex. EMBO J. 20: 6347-6358.
4. Shin, B.K., et al. 2003. Global profiling of the cell surface proteome of cancer cells uncovers an abundance of proteins with chaperone function. J. Biol. Chem. 278: 7607-7616.
5. Fukuhara, H., et al. 2003. Association of a lung tumor suppressor TSLC1 with MPP3, a human homologue of *Drosophila* tumor suppressor DLG. Oncogene 22: 6160-6165.
6. Kantardzhieva, A., et al. 2006. MPP3 is recruited to the MPP5 protein scaffold at the retinal outer limiting membrane. FEBS J. 273: 1152-1165.


## CHROMOSOMAL LOCATION

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

## SOURCE

MPP3 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at 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.

Blocking peptide available for competition studies, sc-74684 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## PROTOCOLS

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

## APPLICATIONS

MPP3 (N-15) 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), 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 (N-15) is also recommended for detection of MPP3 in additional species, including equine, canine, porcine and avian.

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 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.