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MPP2 (h3): 293T Lysate: sc-172797

BACKGROUND

The MAGUK (membrane-associated guanylate kinase homologs) family of proteins contain multiple protein-binding domains and are involved in cell junction organization, tumor suppression and signaling. The MAGUK family is divided into four subfamilies: DLG-like, ZO1-like, p55-like and LIN2-like. MPP2 (membrane protein, palmitoylated 2), also known as MAGUK p55 subfamily member 2, discs large homolog 2 or DLG2, is a 576 amino acid protein belonging to the MAGUK family that exists as three alternatively spliced isoforms. MPP2 contains one guanylate kinase-like domain, a PDZ (DHR) domain, two L27 domains and a single SH3 domain. The gene encoding MPP2 maps to the same segment of human chromosome 17 as MPP3, with whom MPP2 likely shares similar function and common structural organization.

REFERENCES

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- Katoh, M. and Katoh, M. 2004. Identification and characterization of human MPP7 gene and mouse Mpp7 gene in silico. *Int. J. Mol. Med.* 13: 333-338.
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- Baumgartner, M., Weiss, A., Fritzius, T., Heinrich, J. and Moelling, K. 2009. The PDZ protein MPP2 interacts with c-Src in epithelial cells. *Exp. Cell Res.* 315: 2888-2898.

CHROMOSOMAL LOCATION

Genetic locus: MPP2 (human) mapping to 17q21.31.

PRODUCT

MPP2 (h3): 293T Lysate represents a lysate of human MPP2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MPP2 (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive MPP2 antibodies. Recommended use: 10-20 µl per lane.

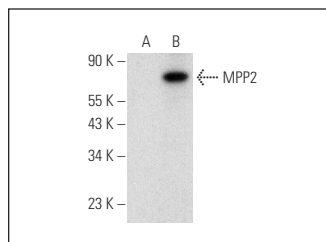
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

MPP2 (A-7): sc-398939 is recommended as a positive control antibody for Western Blot analysis of enhanced human MPP2 expression in MPP2 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

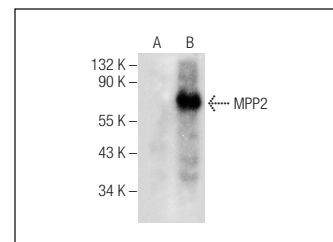
RECOMMENDED SUPPORT REAGENTS

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.

DATA



MPP2 (A-7): sc-398939. Western blot analysis of MPP2 expression in non-transfected: sc-117752 (A) and human MPP2 transfected: sc-172797 (B) 293T whole cell lysates.



MPP2 (D-9): sc-376913. Western blot analysis of MPP2 expression in non-transfected: sc-117752 (A) and human MPP2 transfected: sc-172797 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.