

MPHOSPH6 (H-91): sc-292076

BACKGROUND

Progression of cells from interphase to mitosis involves alterations in cell structures and activities. The transition from G₂ to M phase is induced by M phase-promoting factor (MPF). In M phase, many proteins are phosphorylated directly by MPF or indirectly by kinases activated by MPF. These M phase phosphoproteins (MPPs), also known as MPHOSPHs, permit disassembly of interphase structures and generation of M phase enzymatic activities and structures. MPP6 (M phase phosphoprotein 6) is a 160 amino acid protein encoded by the human gene MPHOSP6. MPP6, a member of the MPP family, contains one nuclear localization signal motif.

REFERENCES

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2. Chen, C.Y., et al. 2001. AU binding proteins recruit the exosome to degrade ARE-containing mRNAs. *Cell* 107: 451-464.
3. Leonoudakis, D., et al. 2004. Protein trafficking and anchoring complexes revealed by proteomic analysis of inward rectifier potassium channel (Kir2.x)-associated proteins. *J. Biol. Chem.* 279: 22331-22346.
4. Lehner, B., et al. 2004. A protein interaction framework for human mRNA degradation. *Genome Res.* 14: 1315-1323.
5. Schilders, G., et al. 2006. MPP6 is an exosome-associated RNA-binding protein involved in 5.8S rRNA maturation. *Nucleic Acids Res.* 33: 6795-6804.
6. Schilders, G., et al. 2007. C1D and hMTR4p associate with the human exosome subunit PM/Sc1-100 and are involved in pre-rRNA processing. *Nucleic Acids Res.* 35: 2564-2572.

CHROMOSOMAL LOCATION

Genetic locus: MPHOSPH6 (human) mapping to 16q23.3; Mphosph6 (mouse) mapping to 8 E1.

SOURCE

MPHOSPH6 (H-91) is a rabbit polyclonal antibody raised against amino acids 39-129 mapping within an internal region of MPHOSPH6 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.

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.

APPLICATIONS

MPP6 (H-91) is recommended for detection of MPP6 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).

MPP6 (H-91) is also recommended for detection of MPP6 in additional species, including porcine.

Suitable for use as control antibody for MPP6 siRNA (h): sc-62635, MPP6 siRNA (m): sc-62636, MPP6 shRNA Plasmid (h): sc-62635-SH, MPP6 shRNA Plasmid (m): sc-62636-SH, MPP6 shRNA (h) Lentiviral Particles: sc-62635-V and MPP6 shRNA (m) Lentiviral Particles: sc-62636-V.

Molecular Weight of MPHOSPH6: 19 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.



Try **MPHOSPH6 (D-3): sc-393429** or **MPHOSPH6 (A-9): sc-377481**, our highly recommended monoclonal alternatives to MPHOSPH6 (H-91).