SANTA CRUZ BIOTECHNOLOGY, INC.

MPHOSPH6 (A-9): sc-377481

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Progression of cells from interphase to mitosis involves alterations in cell structures and activities. The transition from G_2 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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3. Leonoudakis, D., Conti, L.R., Anderson, S., Radeke, C.M., McGuire, L.M., Adams, M.E., Froehner, S.C. and Vandenberg, C.A. 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.
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6. Schilders, G., van Dijk, E. and Pruijn, G.J. 2007. C1D and hMtr4p associate with the human exosome subunit PM/Scl-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 (A-9) is a mouse monoclonal antibody raised against amino acids 39-129 mapping within an internal region of MPHOSPH6 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain 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.

APPLICATIONS

MPHOSPH6 (A-9) is recommended for detection of MPHOSPH6 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for MPHOSPH6 siRNA (h): sc-62635, MPHOSPH6 siRNA (m): sc-62636, MPHOSPH6 shRNA Plasmid (h): sc-62635-SH, MPHOSPH6 shRNA Plasmid (m): sc-62636-SH, MPHOSPH6 shRNA (h) Lentiviral Particles: sc-62635-V and MPHOSPH6 shRNA (m) Lentiviral Particles: sc-62636-V.

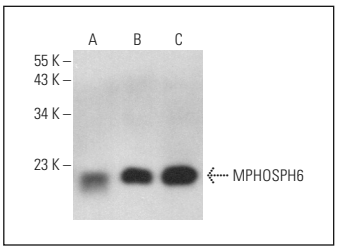
Molecular Weight of MPHOSPH6: 19 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, PC-12 cell lysate: sc-2250 or KNRK whole cell lysate: sc-2214.

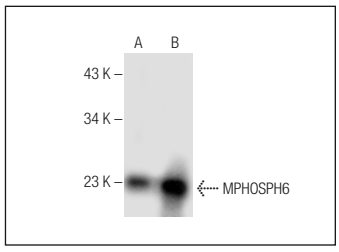
RECOMMENDED SUPPORT REAGENTS

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). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



MPHOSPH6 (A-9): sc-377481. Western blot analysis of MPHOSPH6 expression in MTE1D (**A**), M1 (**B**) and PC-12 (**C**) whole cell lysates.



MPHOSPH6 (A-9): sc-377481. Western blot analysis of MPHOSPH6 expression in KNRK (**A**) and HeLa (**B**) whole cell lysates.

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.