MPHOSPH6 (S-19): sc-55134



The Power to Question

BACKGROUND

Progression of cells from interphase to mitosis involves alterations in cell structures and activities. The transition from $\rm G_2$ 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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CHROMOSOMAL LOCATION

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

SOURCE

MPHOSPH6 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MPHOSPH6 of human rigin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55134 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

MPHOSPH6 (S-19) is recommended for detection of MPHOSPH6 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).

MPHOSPH6 (S-19) is also recommended for detection of MPHOSPH6 in additional species, including equine, bovine and porcine.

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.

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.

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.

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