

# MPHOSPH8 (C-20): sc-84207

## BACKGROUND

MPHOSPH8 (M-phase phosphoprotein 8), also known as two hybrid-associated protein 3 with RanBPM (Twa), is a 860 amino acid nuclear protein that is phosphorylated in the M (mitotic) phase of the cell cycle. MPHOSPH8 contains four ANK repeats, motifs that are typically found in transcriptional regulators and cell cycle proteins and may be involved in protein-protein binding. Due to evidence suggesting that MPHOSPH8 forms a complex with Muskelin and Ran BP-M, a GTPase implicated in a diverse array of cellular processes, it may play a role in the Ran GTPase cycle. The gene encoding MPHOSPH8 resides on chromosome 13. There are two isoforms of MPHOSPH8 that are produced as a result of alternative splicing events.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MPHOSPH8 (human) mapping to 13q12.11; Mphosph8 (mouse) mapping to 14 C3.

## SOURCE

MPHOSPH8 (C-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of MPHOSPH8 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84207 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MPHOSPH8 (C-20) is recommended for detection of MPHOSPH8 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); non cross-reactive with other MPHOSPH family members.

MPHOSPH8 (C-20) is also recommended for detection of MPHOSPH8 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for MPHOSPH8 siRNA (h): sc-106234, MPHOSPH8 siRNA (m): sc-149530, MPHOSPH8 shRNA Plasmid (h): sc-106234-SH, MPHOSPH8 shRNA Plasmid (m): sc-149530-SH, MPHOSPH8 shRNA (h) Lentiviral Particles: sc-106234-V and MPHOSPH8 shRNA (m) Lentiviral Particles: sc-149530-V.

Molecular Weight of MPHOSPH8: 97 kDa.

## 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) 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.

## RESEARCH USE

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

## PROTOCOLS

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Try **MPHOSPH8 (C-8): sc-398598**, our highly recommended monoclonal alternative to MPHOSPH8 (C-20).