

# MOBKL2B (E-13): sc-163086

## BACKGROUND

MOBKL2B (MOB1, Mps one binder kinase activator-like 2B) is a 216 amino acid protein that is related to the yeast MOB1 protein. Yeast MOB1 binds Mps1, a protein kinase essential for spindle pole body duplication and mitotic checkpoint regulation. Belonging to the MOB1/phocea family, MOBKL2B is suggested to regulate the activity of kinases. The gene encoding MOBKL2B is located on human chromosome 9, which consists of about 145 million bases and 4% of the human genome and encodes nearly 900 genes. Chromosome 9 is considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MOBKL2B (human) mapping to 9p21.2; Mobkl2b (mouse) mapping to 4 A5.

## SOURCE

MOBKL2B (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MOBKL2B 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.

Blocking peptide available for competition studies, sc-163086 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MOBKL2B (E-13) is recommended for detection of MOBKL2B 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); may cross-react with MOBKL2A of mouse origin and MOBKL2C of mouse origin.

MOBKL2B (E-13) is also recommended for detection of MOBKL2B in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MOBKL2B siRNA (h): sc-92685, MOBKL2B siRNA (m): sc-149492, MOBKL2B shRNA Plasmid (h): sc-92685-SH, MOBKL2B shRNA Plasmid (m): sc-149492-SH, MOBKL2B shRNA (h) Lentiviral Particles: sc-92685-V and MOBKL2B shRNA (m) Lentiviral Particles: sc-149492-V.

Molecular Weight of MOBKL2B: 25 kDa.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.