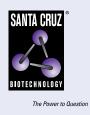
# SANTA CRUZ BIOTECHNOLOGY, INC.

# MOBKL2A (H-3): sc-398531



## BACKGROUND

MOBKL2A (Mps one binder kinase activator-like 2A), also known as MOB-LAK or MOB3A, is a 217 amino acid protein that regulates kinase activity. A member of the MOB1/phocein family, MOBKL2A is encoded by a gene that maps to human chromosome 19. Consisting of around 63 million bases with over 1,400 genes, chromosome 19 makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc $\alpha$  receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulin-dependent diabetes have been linked to chromosome 19.

### REFERENCES

- Olsen, A., et al. 1994. Gene organization of the pregnancy-specific glycoprotein region on human chromosome 19: assembly and analysis of a 700-kb cosmid contig spanning the region. Genomics 23: 659-668.
- 2. Teglund, S., et al. 1994. The pregnancy-specific glycoprotein (PSG) gene cluster on human chromosome 19: fine structure of the 11 PSG genes and identification of 6 new genes forming a third subgroup within the carcinoembryonic antigen (CEA) family. Genomics 23: 669-684.
- Wang, L., et al. 2000. C-CAM1, a candidate tumor suppressor gene, is abnormally expressed in primary lung cancers. Clin. Cancer Res. 6: 2988-2993.
- 4. Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. Immunol. Rev. 181: 20-38.

#### **CHROMOSOMAL LOCATION**

Genetic locus: MOB3A (human) mapping to 19p13.3; Mob3a (mouse) mapping to 10 C1.

#### SOURCE

MOBKL2A (H-3) is a mouse monoclonal antibody raised against amino acids 104-146 mapping within an internal region of MOBKL2A of human origin.

## PRODUCT

Each vial contains 200  $\mu g$  lgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MOBKL2A (H-3) is available conjugated to agarose (sc-398531 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-398531 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398531 PE), fluorescein (sc-398531 FITC), Alexa Fluor<sup>®</sup> 488 (sc-398531 AF488), Alexa Fluor<sup>®</sup> 546 (sc-398531 AF546), Alexa Fluor<sup>®</sup> 594 (sc-398531 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-398531 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-398531 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-398531 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

## **APPLICATIONS**

MOBKL2A (H-3) is recommended for detection of MOBKL2A 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 MOBKL2A siRNA (h): sc-97496, MOBKL2A siRNA (m): sc-149491, MOBKL2A shRNA Plasmid (h): sc-97496-SH, MOBKL2A shRNA Plasmid (m): sc-149491-SH, MOBKL2A shRNA (h) Lentiviral Particles: sc-97496-V and MOBKL2A shRNA (m) Lentiviral Particles: sc-149491-V.

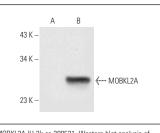
Molecular Weight of MOBKL2A: 25 kDa.

Positive Controls: MOBKL2A (h2): 293T Lysate: sc-112219.

### **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<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

# DATA



MOBKL2A (H-3): sc-398531. Western blot analysis of MOBKL2A expression in non-transfected: sc-117752 (A) and human MOBKL2A transfected: sc-112219 (B) 293T whole cell lysates.

### **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 for detailed protocols and support products.