

MOBKL2A (G-11): sc-138996

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/phoecin 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 α 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

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- Trowsdale, J., et al. 2001. The genomic context of natural killer receptor extended gene families. *Immunol. Rev.* 181: 20-38.
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- Leeb, T., et al. 2004. Comparative human-mouse-rat sequence analysis of the ICAM gene cluster on HSA 19p13.2 and a 185-kb porcine region from SSC 2q. *Gene* 343: 239-244.
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CHROMOSOMAL LOCATION

Genetic locus: MOBKL2A (human) mapping to 19p13.3; Mobkl2a (mouse) mapping to 10 C1.

SOURCE

MOBKL2A (G-11) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of MOBKL2A 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 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138996 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MOBKL2A (G-11) is recommended for detection of MOBKL2A of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with MOBKL2B or MOBKL2C.

MOBKL2A (G-11) is also recommended for detection of MOBKL2A in additional species, including canine.

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.

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

See our web site at www.scbt.com or our catalog for detailed protocols and support products.