MOV10 (G-13): sc-160531

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BACKGROUND

MOV10 (moloney leukemia virus 10), also known as putative helicase MOV-10, gb110 or fSAP113, is a 1,003 amino acid novel telomerase-associated protein that belongs to the DNA2/NAM7 helicase family and SDE3 subfamily. Localizing to mRNA-degrading cytoplasmic P bodies, MOV10 may function as a RNA helicase that is required to mediate miRNA-guided mRNA cleavage and RNA-mediated gene silencing by the RISC (RNA-induced silencing) complex. Highly expressed in ovary and testis, MOV10 is involved in hepatitis δ virus (HDV) transcription and replication, and is known to interact with eIF2C1, eIF2C2, eIF6, Dicer and TRBP2. MOV10 exists as three alternatively spliced isoforms that are encoded by a gene located on human chromosome 1 and mouse chromosome 3. Following translation, MOV10 may become phosphorylated upon DNA damage by either ATM or ATR.

REFERENCES

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5. Haussecker, D., Cao, D., Huang, Y., Parameswaran, P., Fire, A.Z. and Kay, M.A. 2008. Capped small RNAs and MOV10 in human hepatitis δ virus replication. Nat. Struct. Mol. Biol. 15: 714-721.

CHROMOSOMAL LOCATION

Genetic locus: MOV10 (human) mapping to 1p13.2; Mov10 (mouse) mapping to 3 F2.2.

SOURCE

MOV10 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MOV10 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-160531 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

MOV10 (G-13) is recommended for detection of MOV10 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 MOV10L1.

MOV10 (G-13) is also recommended for detection of MOV10 in additional species, including porcine.

Suitable for use as control antibody for MOV10 siRNA (h): sc-88358, MOV10 siRNA (m): sc-149516, MOV10 shRNA Plasmid (h): sc-88358-SH, MOV10 shRNA Plasmid (m): sc-149516-SH, MOV10 shRNA (h) Lentiviral Particles: sc-88358-V and MOV10 shRNA (m) Lentiviral Particles: sc-149516-V.

Molecular Weight of MOV10: 110 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.

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.