



RMI2 (C-16): sc-167292

BACKGROUND

C16orf75, also known as BLAP18 (BLM-associated protein of 18 kDa) or RMI2 (RecQ-mediated genome instability protein 2), is a 147 amino acid nuclear protein. Phosphorylated during mitosis, C16orf75 contains one OB DNA-binding domain. C16orf75 is a component of the RMI complex, which contains the proteins Topo III α and BLAP75. The RMI complex plays a role in the limiting of DNA crossover formation in cells by processing homologous recombination intermediates. The RMI complex interacts directly with BLM and directs BLM-containing complexes to chromatin and stress-induced nuclear foci. The gene that encodes C16orf75 maps to human chromosome 16p13.13. Chromosome 16 encodes over 900 genes in approximately 90 million base pairs, makes up nearly 3% of human cellular DNA and is associated with a variety of genetic disorders.

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CHROMOSOMAL LOCATION

Genetic locus: RMI2 (human) mapping to 16p13.13; Rmi2 (mouse) mapping to 16 A1.

SOURCE

RMI2 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of RMI2 of human origin.

PRODUCT

Each vial contains 200 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-167292 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

RMI2 (C-16) is recommended for detection of RMI2 human origin, A630055G03Rik of mouse origin and the corresponding rat homolog 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 RMI family members.

RMI2 (C-16) is also recommended for detection of RMI2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for RMI2 siRNA (h): sc-93410, RMI2 shRNA Plasmid (h): sc-93410-SH and RMI2 shRNA (h) Lentiviral Particles: sc-93410-V.

Molecular Weight of RMI2 isoforms 1/2: 16/9 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 or our catalog for detailed protocols and support products.