BMS1 (D-14): sc-104826



The Power to Question

BACKGROUND

BMS1 (ribosome biogenesis protein BMS1 homolog) is a 1,282 amino acid protein encoded by the human gene BMS1. BMS1 is a nuclear protein that belongs to the BMS1/TSR1 family (BMS1 subfamily). BMS1 is believed to act as a molecular switch during maturation of the 40S ribosomal subunit in the nucleolus. The 40S ribosomal subunit is an important member of the 80S ribosome complex, which also includes initiator tRNA and a 60S ribosomal subunit. The 80S ribosome is assembled by eukaryotic initiation factors (eIFs) at the initiation codon of mRNA in order to begin translation initiation. The joining of these ribosomal subunits requires eIF5B.

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CHROMOSOMAL LOCATION

Genetic locus: BMS1 (human) mapping to 10q11.21; Bms1 (mouse) mapping to 6 F1.

SOURCE

BMS1 (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of BMS1 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 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-104826 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

BMS1 (D-14) is recommended for detection of BMS1 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).

BMS1 (D-14) is also recommended for detection of BMS1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for BMS1 siRNA (h): sc-90718, BMS1 siRNA (m): sc-141720, BMS1 shRNA Plasmid (h): sc-90718-SH, BMS1 shRNA Plasmid (m): sc-141720-SH, BMS1 shRNA (h) Lentiviral Particles: sc-90718-V and BMS1 shRNA (m) Lentiviral Particles: sc-141720-V.

Molecular Weight of BMS1: 146 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.

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