

MUDENG (N-16): sc-165044

BACKGROUND

MUDENG (MU-2/AP1M2 domain containing, death-inducing), also known as MuD (MU-2-related death-inducing protein) or putative HIV-1 infection-related protein, is a 490 amino acid protein belonging to the adaptor complexes (APs) medium subunit family. MUDENG contains an adaptin domain found in the MU-2 subunit of APs related to clathrin-mediated endocytosis, and may independently induce cell death. Encoded by a gene that maps to human chromosome 14q22.3, MUDENG is expressed in most tissues, including intestine and testis, and appears to be evolutionary conserved from mammals to amphibians, implying a universal role in cell death. MUDENG exists as two alternative spliced isoforms and is expressed in various tumor cell lines, including Jurkat T-cells, HepG2 cells and HeLa cells.

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CHROMOSOMAL LOCATION

Genetic locus: AP5M1 (human) mapping to 14q22.3; Mudeng (mouse) mapping to 14 C1.

SOURCE

MUDENG (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MUDENG 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-165044 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MUDENG (N-16) is recommended for detection of MUDENG 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).

MUDENG (N-16) is also recommended for detection of MUDENG in additional species, including equine and canine.

Suitable for use as control antibody for MUDENG siRNA (h): sc-92214, MUDENG siRNA (m): sc-140253, MUDENG shRNA Plasmid (h): sc-92214-SH, MUDENG shRNA Plasmid (m): sc-140253-SH, MUDENG shRNA (h) Lentiviral Particles: sc-92214-V and MUDENG shRNA (m) Lentiviral Particles: sc-140253-V.

Molecular Weight of MUDENG: 55 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.