

AMN1 (D-18): sc-249920

BACKGROUND

AMN1 (antagonist of mitotic exit network 1 homolog) is a 258 amino acid protein belonging to the AMN1 family. Encoded by a gene that maps to human chromosome 12p11.21, AMN1 contains 12 degenerate leucine-rich repeat (LRR) motifs and modulates Ste12 binding to promoters of multiple genes. As a daughter cell-specific protein, AMN1 inhibits ELL function to deactivate the mitotic exit state and reset the cell cycle in G₁. AMN1 does not halt mitotic exit, but turns it off afterward. Induced by ELL after exit activation, AMN1 disrupts TEM1-Cdc15 interaction by competing with Cdc15 for TEM1 binding and by facilitating inactivation of Cdc14. Defects in AMN1 can result in disruption of both the spindle assembly and nuclear orientation checkpoints. AMN1 may also mediate gene activity and phenotypic diversity.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AMN1 (human) mapping to 12p11.21; Amn1 (mouse) mapping to 6 G3.

SOURCE

AMN1 (D-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AMN1 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-249920 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AMN1 (D-18) is recommended for detection of AMN1 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).

AMN1 (D-18) is also recommended for detection of AMN1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for AMN1 siRNA (h): sc-95825, AMN1 siRNA (m): sc-141051, AMN1 shRNA Plasmid (h): sc-95825-SH, AMN1 shRNA Plasmid (m): sc-141051-SH, AMN1 shRNA (h) Lentiviral Particles: sc-95825-V and AMN1 shRNA (m) Lentiviral Particles: sc-141051-V.

Molecular Weight of AMN1: 28 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.