

AMID (E-17): sc-54161

BACKGROUND

AMID (apoptosis-inducing factor (AIF)-like mitochondrion-associated inducer of death), also called p53-responsive gene 3 (PRG3), is a member of the FAD-dependent oxidoreductase family. AMID is a caspase-independent pro-apoptotic flavoprotein with NAD(P)H oxidase activity localizing to the cytosol and associated with the outer mitochondrial membrane. AMID shares significant homology with AIF and NADH-oxidoreductases. It is expressed in most normal tissues and its expression is upregulated by p53. Two AMID isoforms exist due to alternative splicing. Isoform 1 is the full length protein and isoform 2 is missing amino acids 99-138. Isoform 2 also has an additional three amino acids inserted after residue 206. Overexpression of AMID leads to apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AIFM2 (human) mapping to 10q22.1; Aifm2 (mouse) mapping to 10 B4.

SOURCE

AMID (E-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of AMID 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-54161 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AMID (E-17) is recommended for detection of AIF-like mitochondrion-associated inducer of death 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).

AMID (E-17) is also recommended for detection of AIF-like mitochondrion-associated inducer of death in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AMID siRNA (h): sc-72339, AMID siRNA (m): sc-72340, AMID shRNA Plasmid (h): sc-72339-SH, AMID shRNA Plasmid (m): sc-72340-SH, AMID shRNA (h) Lentiviral Particles: sc-72339-V and AMID shRNA (m) Lentiviral Particles: sc-72340-V.

Molecular Weight of AMID: 41 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.