

ATAD4 (P-18): sc-245016



The Power to Question

BACKGROUND

The AAA ATPase family of molecular chaperones is characterized by a highly conserved AAA motif. Composed of 200-250 residues, the AAA domain contains Walker homology sequences and imparts ATPase activity. Members of the AAA ATPase family act as DNA helicases or transcription factors and are thought to be involved in several cellular functions, such as cell-cycle regulation, protein proteolysis, organelle biogenesis and vesicle-mediated protein transport. ATAD4 (ATPase family, AAA domain containing 4), also known as PRR15L (proline rich 15-like), is a 103 amino acid protein. Encoded by a gene that maps to human chromosome 17q21.32, ATAD4 is conserved in chimpanzee, canine, bovine and mouse. ATAD4 may play a role in benign serous ovarian tumors and epithelial ovarian cancer.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Prr15l (mouse) mapping to 11 D.

SOURCE

ATAD4 (P-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ATAD4 of mouse 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-245016 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ATAD4 (P-18) is recommended for detection of ATAD4 of mouse and rat 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); non cross-reactive with other ATAD family members.

Suitable for use as control antibody for ATAD4 siRNA (m): sc-141317, ATAD4 shRNA Plasmid (m): sc-141317-SH and ATAD4 shRNA (m) Lentiviral Particles: sc-141317-V.

Molecular Weight of ATAD4: 12 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.