

ATE1 (H-300): sc-99238

BACKGROUND

Arginyl-tRNA-protein transferase (ATE1), also designated arginyltransferase 1, belongs to the R-transferase family of proteins. In order for a protein to be degraded via the ubiquitin pathway, arginylation of the protein is required. ATE1 plays an important role in this process, as it is important for the post-translational conjugation of arginine to the N-terminal aspartate-, glutamate- and possibly cystine-containing substrates. ATE1 is a 518 amino acid protein. Alternative splicing results in 2 distinct isoforms. ATE1, which is found as a monomer, can localize to the cytoplasm and/or the nucleus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ATE1 (human) mapping to 10q26.13; Ate1 (mouse) mapping to 7 F3.

SOURCE

ATE1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of ATE1 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.

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.

APPLICATIONS

ATE1 (H-300) is recommended for detection of ATE1 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

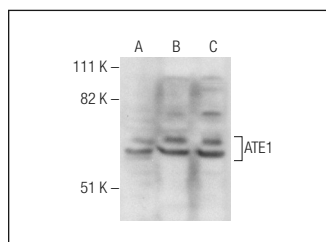
ATE1 (H-300) is also recommended for detection of ATE1 isoforms 1 and 2 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for ATE1 siRNA (h): sc-60220, ATE1 siRNA (m): sc-60221, ATE1 shRNA Plasmid (h): sc-60220-SH, ATE1 shRNA Plasmid (m): sc-60221-SH, ATE1 shRNA (h) Lentiviral Particles: sc-60220-V and ATE1 shRNA (m) Lentiviral Particles: sc-60221-V.

Molecular Weight of ATE1: 59 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, Jurkat whole cell lysate: sc-2204 or MDA-MB-231 whole cell lysate.

DATA



ATE1 (H-300): sc-99238. Western blot analysis of ATE1 expression in Hep G2 (A), MDA-MB-231 (B) and Jurkat (C) whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **ATE1 (G-6): sc-398805** or **ATE1 (H-12): sc-271219**, our highly recommended monoclonal alternatives to ATE1 (H-300).