

ARD1 (E-16): sc-33256

BACKGROUND

The ARD1 subfamily of proteins belongs to the larger acetyltransferase family. N-terminal acetyltransferase complex ARD1, also designated Te2, forms a complex with NARG1, displaying N-terminal acetyltransferase activity. Without NARG1, ARD1 promotes hypoxia-inducible factor-1 α (HIF-1 α) degradation by displaying internal acetyltransferase activity towards HIF-1 α . This ubiquitously expressed protein, which is mainly cytoplasmic, is cleaved by caspases during apoptosis. ARD1 interacts with the ribosome, NARG1 and HIF-1 α . In its binding to HIF-1 α , ARD1 acts as a protein acetyltransferase by regulating its stability. In many cell lines, ARD1 is downregulated in response to hypoxia. ARD1 is expressed throughout the developing brain.

CHROMOSOMAL LOCATION

Genetic locus: NAA10 (human) mapping to Xq28; Naa10 (mouse) mapping to X A7.3.

SOURCE

ARD1 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of ARD1 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-33256 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ARD1 (E-16) is recommended for detection of N-terminal Acetyltransferase Complex ARD1 Subunit Homolog of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

ARD1 (E-16) is also recommended for detection of N-terminal Acetyltransferase Complex ARD1 Subunit Homolog in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for ARD1 siRNA (h): sc-44713, ARD1 siRNA (m): sc-44714, ARD1 shRNA Plasmid (h): sc-44713-SH, ARD1 shRNA Plasmid (m): sc-44714-SH, ARD1 shRNA (h) Lentiviral Particles: sc-44713-V and ARD1 shRNA (m) Lentiviral Particles: sc-44714-V.

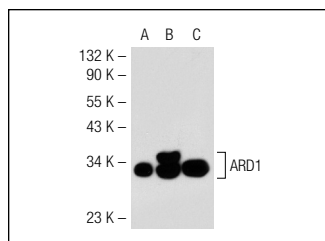
Molecular Weight of ARD1: 30 kDa.

Positive Controls: ARD1 (m): 293T Lysate: sc-118513, HeLa whole cell lysate: sc-2200 or ARD1 (h): 293T Lysate: sc-128004.

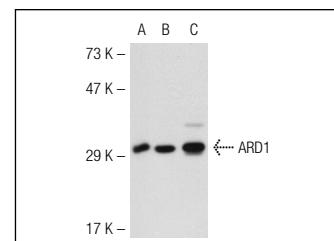
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



ARD1 (E-16): sc-33256. Western blot analysis of ARD1 expression in non-transfected 293T: sc-117752 (A), human ARD1 transfected 293T: sc-128004 (B) and HeLa (C) whole cell lysates.



ARD1 (E-16): sc-33256. Western blot analysis of ARD1 expression in non-transfected 293T: sc-117752 (A), mouse ARD1 transfected 293T: sc-118513 (B) and HeLa (C) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Kuo, H.P., et al. 2010. ARD1 stabilization of TSC2 suppresses tumorigenesis through the mTOR signaling pathway. *Sci. Signal.* 3: ra9.
2. Pang, A.L., et al. 2011. Expression of human NAA11 (ARD1B) gene is tissue-specific and is regulated by DNA methylation. *Epigenetics* 6: 1391-1399.

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.



Try **ARD1 (A-10): sc-373920**, our highly recommended monoclonal alternative to ARD1 (E-16).