**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-1α (HIF-1α) degradation by displaying internal acetyltransferase activity towards HIF-1α. This ubiquitously expressed protein, which is mainly cytoplasmic, is cleaved by caspases during apoptosis. ARD1 interacts with the ribosome, NARG1 and HIF-1α. In its binding to HIF-1α, 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.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: NAA10 (human) mapping to Xq28; Naa10 (mouse) mapping to XA7.3.

**SOURCE**

ARD1 (A-10) is a mouse monoclonal antibody raised against amino acids 1-235 representing full length ARD1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ARD1 (A-10) is available conjugated to agarose (sc-373920 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-373920 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-373920 PE), fluorescein (sc-373920 FITC), Alexa Fluor® 488 (sc-373920 AF488), Alexa Fluor® 546 (sc-373920 AF546), Alexa Fluor® 594 (sc-373920 AF594) or Alexa Fluor® 647 (sc-373920 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-373920 AF680) or Alexa Fluor® 790 (sc-373920 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

ARD1 (A-10) is recommended for detection of N-terminal Acetyltransferase complex ARD1 subunit homolog of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

ARD1 (A-10) sc-373920. Western blot analysis of ARD1 expression in Jurkat (A), NTERA-2 cl.D1 (B), TT (C) and NIH/3T3 (D) whole cell lysates.

**SELECT PRODUCT CITATIONS**


**STORAGE**

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