DATASHEET

ARD1 Mouse Monoclonal Antibody(C2861)

CAT. NO. AMA02473

KEY FEATURES

Target	ARD1	Source / Host	Mouse
Reactivity	Human, Mouse, Monkey	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Catalytic subunit of N-terminal acetyltransferase complexes which display alpha (N-terminal) acetyltransferase activity acetyltransferase activity . Acetylates amino termini that are devoid of initiator methionine . The alpha (N-terminal) acetyltransferase activity may be important for vascular, hematopoietic and neuronal growth and development. Without NAA15, displays epsilon (internal) acetyltransferase activity towards HIF1A, thereby promoting its degradation . Represses MYLK kinase activity by acetylation, and thus represses tumor cell migration . Acetylates, and stabilizes TSC2, thereby repressing mTOR activity and suppressing cancer development . Acetylates HSPA1A and HSPA1B at 'Lys-77' which enhances its chaperone activity and leads to preferential binding to co-chaperone HOPX .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IF/ICC	1:100 - 1:500
FC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Mouse monoclonal to ARD1
Specificity	Recognizes endogenous levels of ARD1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human ARD1 expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 27 kD; Observed: 60 kD kD
Form/Buffer	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	ARD1; ARD1A; TE2; N-alpha-acetyltransferase 10; N-terminal acetyltransferase complex ARD1 subunit homolog A; NatA catalytIC, subunit Naa10
Gene Symbol	NAA10
Entrez Gene	8260(Human)
SwissProt	P41227(Human); Q9QY36(Mouse)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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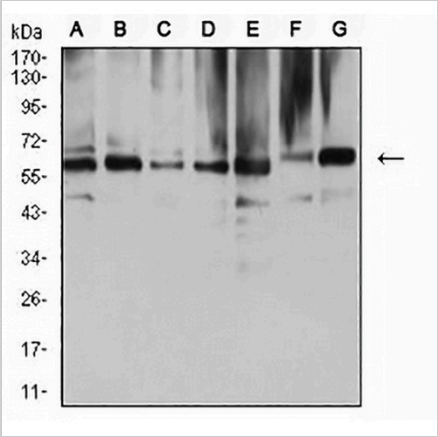
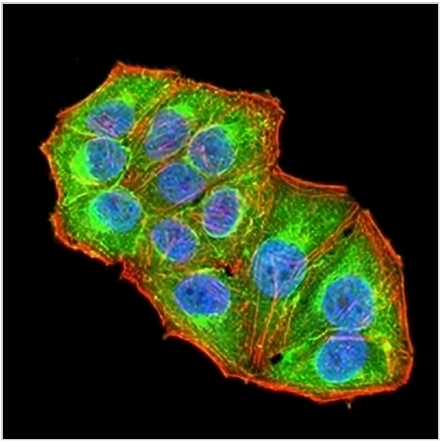
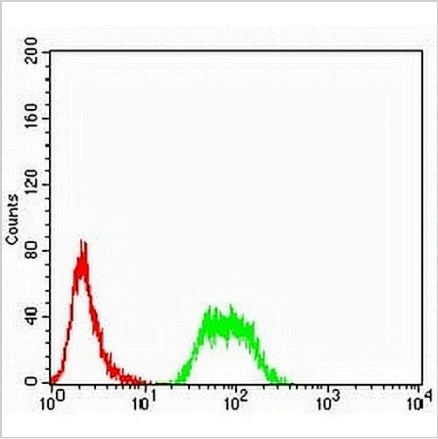
DATA



Western blot analysis of ARD1 expression in COS7 (A), HEK293 (B), HL60 (C), MCF7 (D), Hela (E), NIH/3T3 (F), C2C12 (G) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 60 kD kD)



Immunofluorescent analysis of ARD1 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with an AREX® Fluor 488 -conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AREX® Fluor 594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of SMMC7721 cells using Anti-ARD1 Antibody (green) and negative control (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.