10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ARD1 Antibody

Catalog # AP95966

Product Information

Application	WB, FC, IF/IC
Primary Accession	P41227
Reactivity	Human, Mouse, Mk
Host	Mouse
Clonality	Monoclonal
Calculated MW	26459

Additional Information

Gene ID	8260
Other Names	ARD1; ARD1A; TE2; N-alpha-acetyltransferase 10; N-terminal acetyltransferase complex ARD1 subunit homolog A; NatA catalytIC, subunit Naa10
Target/Specificity	Recombinant fusion protein of human ARD1 expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG1. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

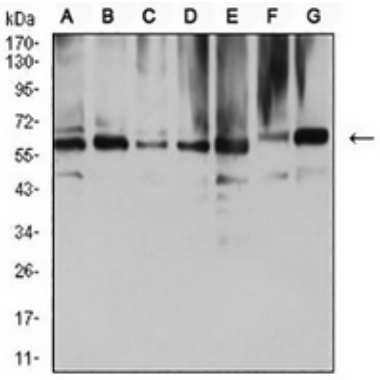
Name	NAA10
Synonyms	ARD1, ARD1A, TE2
Function	Catalytic subunit of N-terminal acetyltransferase complexes which display alpha (N-terminal) acetyltransferase activity (PubMed:15496142, PubMed:19420222, PubMed:19826488, PubMed:20145209, PubMed:20154145, PubMed:25489052, PubMed:27708256, PubMed:29754825, PubMed:32042062). Acetylates amino termini that are devoid of initiator methionine (PubMed:19420222). 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 (PubMed:12464182). Represses MYLK kinase activity by acetylation, and thus represses tumor cell migration (PubMed:19826488). Acetylates, and stabilizes TSC2, thereby repressing mTOR activity and suppressing cancer development (PubMed:20145209). Acetylates HSPA1A and HSPA1B at 'Lys-77' which enhances its chaperone activity and leads to preferential binding to co-chaperone HOPX (PubMed:27708256). Acetylates HIST1H4A

(PubMed:29754825). Acts as a negative regulator of sister chromatid cohesion during mitosis (PubMed:27422821).

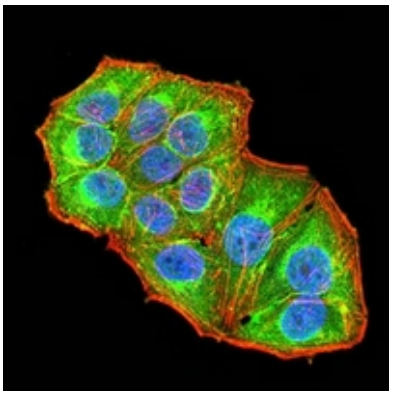
Cellular Location Cytoplasm. Nucleus. Note=Also present in the free cytosolic and cytoskeleton-bound polysomes.

Tissue Location Ubiquitous..

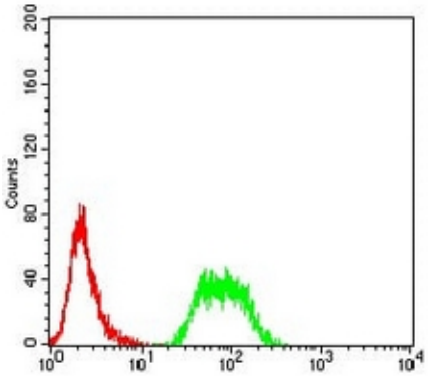
Images



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)



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 AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.