

DATASHEET

CDKAL1 Rabbit Polyclonal Antibody

CAT. NO. APA11711

KEY FEATURES

Target	CDKAL1	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Catalyzes the methylthiolation of N6-threonylcarbamoyladenine (t(6)A), leading to the formation of 2-methylthio-N6-threonylcarbamoyladenine (ms(2)t(6)A) at position 37 in tRNAs that read codons beginning with adenine.

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	1:50 - 1:200

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

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to CDKAL1
Specificity	Recognizes endogenous levels of CDKAL1 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CDKAL1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 65 kD; Observed: 55 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	Threonylcarbamoyladenine tRNA methylthiotransferase; CDK5 regulatory subunit-associated protein 1-like 1; tRNA-t(6)A37 methylthiotransferase
Gene Symbol	CDKAL1
Entrez Gene	54901(Human); 68916(Mouse)
SwissProt	Q5VV42(Human); Q91WE6(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.

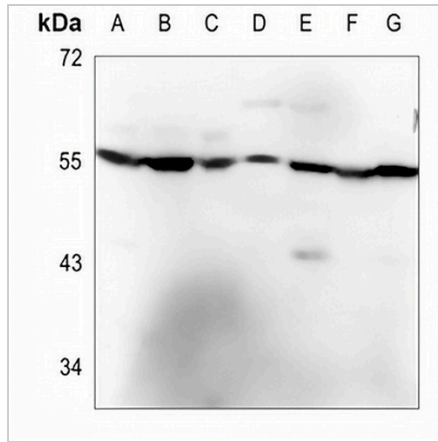
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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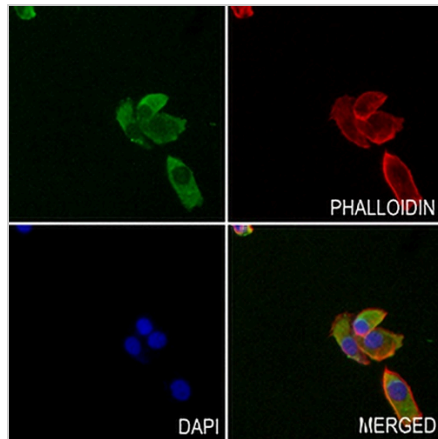
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Western blot analysis of CDKAL1 expression in HEK293T (A), MCF7 (B), H1792 (C), mouse muscle (D), mouse spleen (E), rat muscle (F), rat spleen (G) whole cell lysates. (Predicted band size: 65 kD; Observed band size: 55 kD)



Immunofluorescent analysis of CDKAL1 staining in MG63 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 humidified chamber. Cells were washed with PBST and incubated with a 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).

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.