DATASHEET

SDHA Mouse Monoclonal Antibody(C2952)

CAT. NO. AMA02564

KEY FEATURES

Target	SDHA	Source / Host	Mouse
Reactivity	Human, Mouse	Clonality	Monoclonal
Applications	WB, IF/ICC, FC	Conjugation	Unconjugated
Form / Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Flavoprotein (FP) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q) subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q) . SDH also oxidizes malate to the non-canonical enol form of oxaloacetate, enol-oxaloacetate . Enol-oxaloacetate, which is a potent inhibitor of the succinate dehydrogenase activity, is further isomerized into keto-oxaloacetate . Can act as a tumor suppressor .

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 SDHA
Specificity	Recognizes endogenous levels of SDHA protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human SDHA expressed in E. Coli
Purification	This antibody is purified through a protein G column.
Molecular Weight	Predicted: 73 kD; Observed: 70 kD kD
Form/Buffer	Mouse IgG2a. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	SDH2; SDHF; Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial; Flavoprotein subunit of complex II; Fp
Gene Symbol	SDHA
Entrez Gene	6389(Human); 157074(Rat)
SwissProt	P31040(Human); Q8K2B3(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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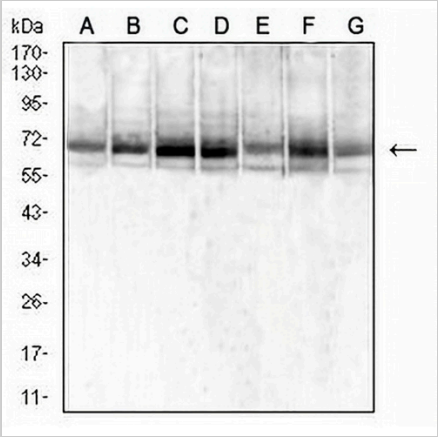
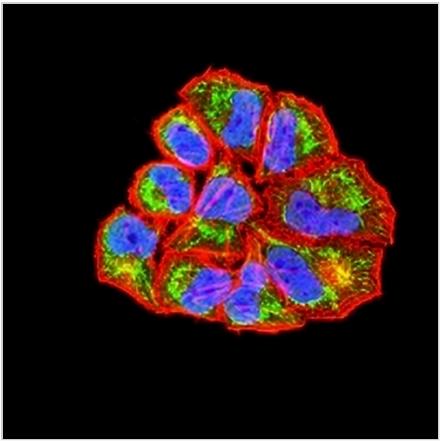
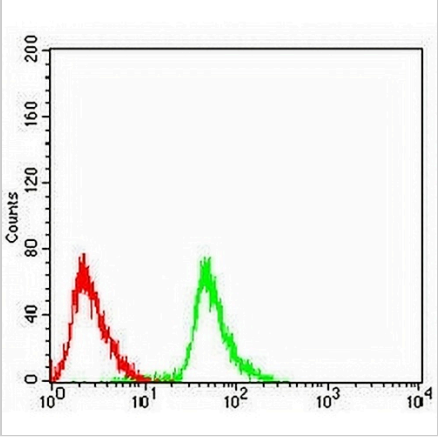
DATA



Western blot analysis of SDHA expression in Jurkat (A), MCF7 (B), Hela (C), HepG2 (D), PC3 (E), .HL60 (F), NIH/3T3 (G) whole cell lysates. (Predicted band size: 73 kD; Observed band size: 70 kD kD)



Immunofluorescent analysis of SDHA 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 Raji cells using Anti-SDHA 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.