

DATASHEET
SIRT5 Rabbit Polyclonal Antibody
CAT. NO. APA16846
KEY FEATURES

Target	SIRT5	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	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

NAD-dependent lysine demalonylase, desuccinylase and deglutarylase that specifically removes malonyl, succinyl and glutaryl groups on target proteins . Activates CPS1 and contributes to the regulation of blood ammonia levels during prolonged fasting; acts by mediating desuccinylation and deglutarylation of CPS1, thereby increasing CPS1 activity in response to elevated NAD levels during fasting . Activates SOD1 by mediating its desuccinylation, leading to reduced reactive oxygen species . Activates SHMT2 by mediating its desuccinylation . Modulates ketogenesis through the desuccinylation and activation of HMGCS2 . Has weak NAD-dependent protein deacetylase activity; however this activity may not be physiologically relevant in vivo.

APPLICATION

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

WB	1:500 - 1:2000
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*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

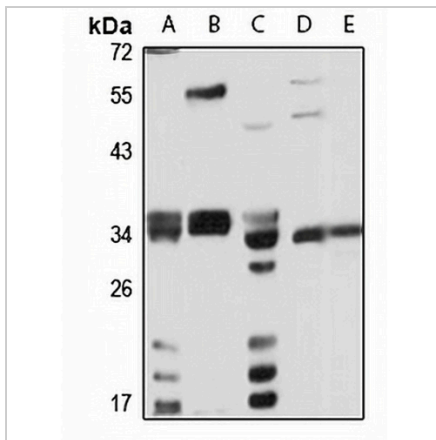
Description	Rabbit polyclonal antibody to SIRT5
Specificity	Recognizes endogenous levels of SIRT5 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human SIRT5. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 21; Observed: 30 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	SIR2L5; NAD-dependent protein deacylase sirtuin-5 mitochondrial; Regulatory protein SIR2 homolog 5; SIR2-like protein 5
Gene Symbol	SIRT5
Entrez Gene	23408(Human); 68346(Mouse); 306840(Rat)
SwissProt	Q9NXA8(Human); Q8K2C6(Mouse); Q68FX9(Rat)

*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 SIRT5 expression in HepG2 (A), A549 (B), mouse liver (C), mouse heart (D), rat kidney (E) whole cell lysates. (Predicted band size: 21; 31; 32; 33 kD; Observed band size: 30 kD)

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.