

DATASHEET

SIRT7 Rabbit Polyclonal Antibody

CAT. NO. APA12564

KEY FEATURES

Target	SIRT7	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 protein-lysine deacetylase that can act both as a deacetylase or deacylase (desuccinylase, depropionylase, deglutarylase and dedecanoylase), depending on the context, depending on the context. Specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays strong preference for a specific histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors; SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells.

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

PRODUCT OVERVIEW

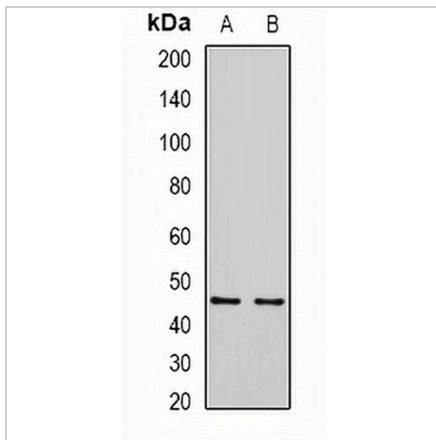
Description	Rabbit polyclonal antibody to SIRT7
Specificity	Recognizes endogenous levels of SIRT7 protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human SIRT7
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 20; Observed: 45 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	SIR2L7; NAD-dependent protein deacetylase sirtuin-7; Regulatory protein SIR2 homolog 7; SIR2-like protein 7
Gene Symbol	SIRT7
Entrez Gene	51547(Human); 209011(Mouse); 303745(Rat)
SwissProt	Q9NRC8(Human); Q8BKJ9(Mouse); B2RZ55(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 SIRT7 expression in HEK293T (A), HeLa (B) whole cell lysates. (Predicted band size: 20; 35; 44 kD; Observed band size: 45 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.