

## ARG54659 anti-SIRT3 antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Chicken Polyclonal antibody recognizes SIRT3
Tested Reactivity	Hu, Ms, Rat
Tested Application	ELISA, WB
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Target Name	SIRT3
Immunogen	Synthetic peptide (17 aa) within aa. 180-230 of Human SIRT3.
Conjugation	Un-conjugated
Alternate Names	NAD-dependent protein deacetylase sirtuin-3, mitochondrial; SIR2L3; hSIRT3; EC 3.5.1.-; Regulatory protein SIR2 homolog 3; SIR2-like protein 3

### Application Instructions

Application table	Application	Dilution
	ELISA	Assay-Dependent
	WB	1 - 2 µg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse Heart Tissue Lysate	

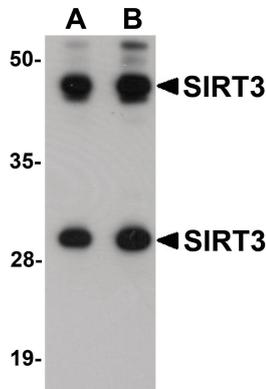
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links	<a href="#">GeneID: 23410 Human</a> <a href="#">GeneID: 64384 Mouse</a> <a href="#">Swiss-port # Q8R104 Mouse</a> <a href="#">Swiss-port # Q9NTG7 Human</a>
Gene Symbol	SIRT3
Gene Full Name	sirtuin 3
Background	<p>SIRT3 Antibody: The Silent Information Regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and have important functions in the regulation of metabolism, growth and differentiation, inflammation, cellular survival, as well as in senescence, lifespan extension and several age-related diseases. Sirtuins are NAD<sup>+</sup>-dependent histone/protein deacetylases (HDAC) and SIRT3 is the only sirtuin whose increased expression has been shown to correlate with an extended life span in humans. It is localized in the mitochondrial matrix, where it regulates the acetylation levels of metabolic enzymes, including acetyl coenzyme A synthetase 2. SIRT3 is stress-responsive and its increased expression protects myocytes from genotoxic and oxidative stress-mediated cell death.  </p>
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody; Metabolism antibody
Calculated Mw	44 kDa
PTM	Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity.

## Images



ARG54659 anti-SIRT3 antibody WB image

Western blot: mouse heart tissue lysate stained with ARG54659 anti-SIRT3 antibody at (A) 1 and (B) 2 µg/ml.