

Datasheet for 200-901-EL8**SIRT3 Antibody****Overview**

Description:	Anti-SIRT3 (CHICKEN) Antibody - 200-901-EL8
Item No.:	200-901-EL8
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Chicken

Product Details

Background:	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 ⁺ -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.
Synonyms:	SIRT3 Antibody, SIR2L3, SIR2L3, NAD-dependent protein deacetylase sirtuin-3, mitochondrial, Regulatory protein SIR2 homolog 3, hSIRT3
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	SIRT3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SIRT3 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 17 amino acid synthetic peptide near the internal region of human SIRT3.
Purity/Specificity:	Anti-SIRT3 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with SIRT3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NTG7 • GeneID - 23410 • NCBI - NP_036371

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-SIRT3 Antibody has been tested for use in ELISA and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 44 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
WB:	1-2 µg/mL

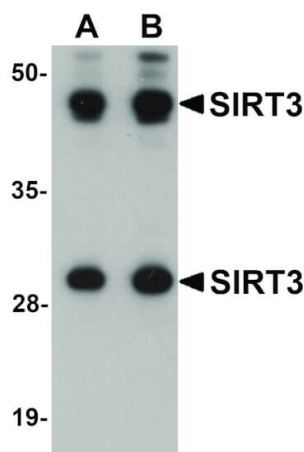
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of SIRT3 antibody. Lane 1: Mouse heart tissue lysate with SIRT3 antibody at 1 μ g/mL. Lane 2: Mouse heart tissue lysate with SIRT3 antibody at 2 μ g/mL. Secondary antibody: Peroxidase chicken secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 44 kDa, 45 kDa for SIRT3. Other band(s): SIRT3 splice variants and isoforms.

Disclaimer

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