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Datasheet for 200-901-EM2

# SIRT7 Antibody

## Overview

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| **Description:** | Anti-SIRT7 (CHICKEN) Antibody - 200-901-EM2 |
| **Item No.:** | 200-901-EM2 |
| **Size:** | 100 µg |
| **Applications:** | ELISA, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Chicken |

## Product Details

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| **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 and lifespan extension. Sirtuins, including SIRT1-7, are human homologs of yeast Sir2p. Sirtuins are NAD+-dependent histone/protein deacetylases (HDAC) which regulate cellular metabolism, e.g. energy metabolism, and thereby are associated with aging and several age-related diseases. SIRT7 is a nucleolar protein that positively regulates RNA polymerase I transcription and has been postulated to enable cells to sustain critical functions by inhibiting cell growth under severe stress conditions. |
| **Synonyms:** | SIRT7 Antibody, SIR2L7, SIR2L7, NAD-dependent protein deacetylase sirtuin-7, Regulatory protein SIR2 homolog 7 |
| **Host Species:** | Chicken |
| **Clonality:** | Polyclonal |
| **Format:** | IgY |

## Target Details

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| **Gene Name:** | SIRT7 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Conjugated Peptide |

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| **Immunogen:** | Anti-SIRT7 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 19 amino acid synthetic peptide near the N-terminus of human SIRT7. |
| **Purity/Specificity:** | Anti-SIRT7 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with SIRT7 from other sources has not been determined. |
| **Relevant Links:** | • UniProtKB - Q9NRC8<br>• GeneID - 51547<br>• NCBI - NP_057622 |

## Application Details

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| **Tested Applications:** | ELISA, WB |
| **Application Note:** | Anti-SIRT7 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 45 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:** | 1:5,000 - 1:10,000 |
| **WB:** | .5-1 µg/mL |

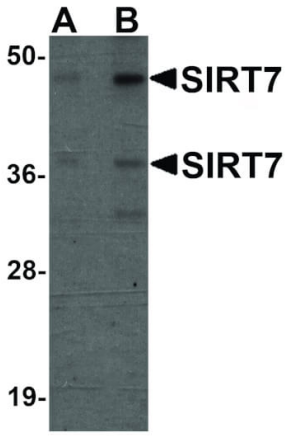
## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1 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

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| **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 SIRT7 antibody. Lane 1: 293 cell lysate with SIRT7 antibody at 0.5 µg/mL. Lane 2: 293 cell lysate with SIRT7 antibody at 1 µg/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: 45 kDa, 47 kDa for SIRT7. Other band(s): SIRT7 splice variants and isoforms.

## Disclaimer

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