Datasheet for 200-901-EL9

SIRT4 Antibody

Overview

Description:	Anti-SIRT4 (CHICKEN) Antibody - 200-901-EL9
Item No.:	200-901-EL9
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 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. SIRT4 localizes to mitochondria, inhibits glutamate dehydrogenase, and is thought to be involved in the regulation of insulin secretion.
Synonyms:	SIRT4 Antibody, SIR2L4, SIR2L4, NAD-dependent protein deacetylase sirtuin-4, NAD-dependent ADP-ribosyltransferase sirtuin-4
Host Species:	Chicken
Clonality:	Polyclonal
Format:	IgY

Target Details

Gene Name:	SIRT4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SIRT4 antibody was prepared from chicken egg fractions produced by repeated immunizations with a 17 amino acid synthetic peptide near the N-terminus of human SIRT4.

Purity/Specificity:	Anti-SIRT4 Antibody is an IgY fraction that has been affinity purified by immunoaffinity purification. Cross reactivity with SIRT4 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y6E7 • GeneID - 23409 • NCBI - EAW98182

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-SIRT4 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 35 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

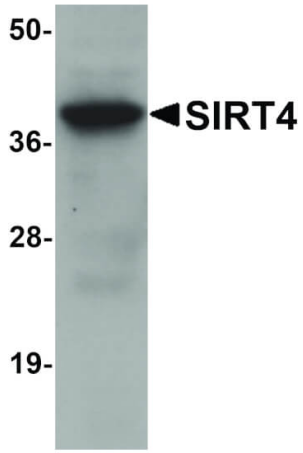
Formulation

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 SIRT4 antibody. Lane 1: Human liver tissue lysate with SIRT4 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: 35 kDa, 37 kDa for SIRT4. Other band(s): SIRT4 splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.