

Datasheet for 200-401-I14**SIRT5 Antibody****Overview**

Description:	Anti-SIRT5 (RABBIT) Antibody - 200-401-I14
Item No.:	200-401-I14
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Anti-SIRT5 Antibody detects human SIRT5. SIRT5 is a human member of a family of proteins called Sirtuins (Sir2-like proteins) and are present in prokaryotes and eukaryotes. All Sir2-like proteins have a sirtuin core domain, which contains a series of sequence motifs conserved in organisms ranging from bacteria to humans. Bacterial, yeast and mammalian sirtuins are able to metabolize NAD and possibly act as mono-ADP-ribosyltransferases. The enzymatic function of sirtuins is not yet completely understood but recent reports of histone-activated Sir2-mediated NAD metabolism and NAD-activated Sir2-mediated histone deacetylation suggest a possible coupled reciprocal activation mechanism involving interactions of Sir2 with NAD and the N epsilon-acetyl-lysine groups of acetylated histones. Anti-SIRT5 Antibody is ideal for investigators involved in Epigenetic , chromatin, or enzyme research.
Synonyms:	SIR2L5
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SIRT5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	SIRT5 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a synthetic peptide corresponding to internal amino acids of human SIRT5 .
Purity/Specificity:	Anti-SIRT5 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-SIRT5 from human, mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-SIRT5 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NXA8 • NCBI - NP_001180196.1 • GeneID - 23408

Application Details

Tested Applications:	WB
Application Note:	Anti-SIRT5 Antibody is tested for use in WB. Expect a band approximately 37kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1-3 µg/mL

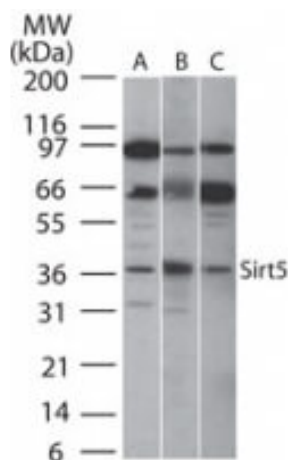
Formulation

Physical State:	Liquid
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

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 Rabbit Anti-SIRT5 antibody. Lane A: human intestine. Lane B: mouse intestine. Lane C: rat intestine cell lysate. Primary antibody: SIRT5 at 2 $\mu\text{g}/\text{mL}$ for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~34 kDa for SIRT5. Other band(s): none.

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.