

Datasheet for ABIN3043336
anti-SIRT7 antibody (AA 8-350)

3 Images

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Overview

Quantity:	100 µg
Target:	SIRT7
Binding Specificity:	AA 8-350
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for NAD-dependent protein deacetylase sirtuin-7(SIRT7) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human SIRT7 recombinant protein (Position: R8-G350). Human SIRT7 shares 96% and 95% amino acid (aa) sequence identity with mouse and rat SIRT7, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for NAD-dependent protein deacetylase sirtuin-7(SIRT7) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: sirtuin 7</p> <p>Protein Name: NAD-dependent protein deacetylase sirtuin-7</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	SIRT7
Alternative Name:	SIRT7 (SIRT7 Products)
Background:	<p>SIRT7 is also known as SIR2L7. This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined, however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class IV of the sirtuin family.</p> <p>Synonyms: NAD dependent deacetylase sirtuin 7 antibody NAD dependent protein deacetylase sirtuin 7 antibody NAD-dependent deacetylase sirtuin-7 antibody Regulatory protein SIR2 homolog 7 antibody Silent mating type information regulation 2 homolog antibody Silent mating type information regulation 2 S.cerevisiae homolog 7 antibody SIR2 L7 antibody SIR2 like protein 7 antibody Sir2 related protein type 7 antibody SIR2, S.CEREVISIAE, HOMOLOG-LIKE 7 antibody SIR2-like protein 7 antibody SIR2L 7 antibody SIR2L7 antibody SIRT 7 antibody SIRT7 antibody SIRT7_HUMAN antibody Sirtuin 7 antibody Sirtuin type 7 antibody Sirtuin7 antibody</p>
Gene ID:	51547

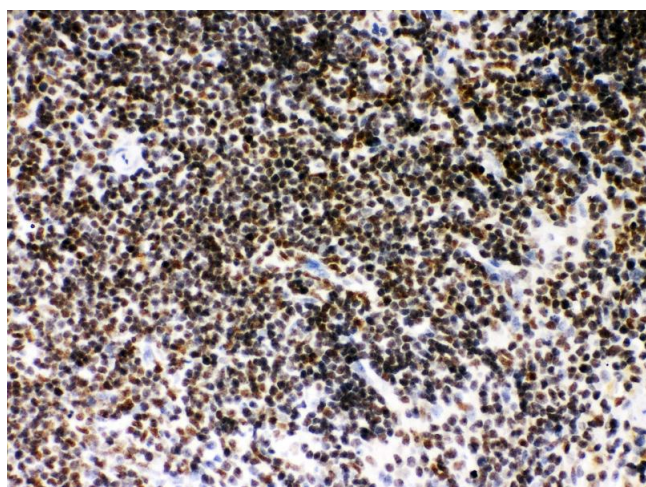
Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for SIRT7 is approximately 0.1 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

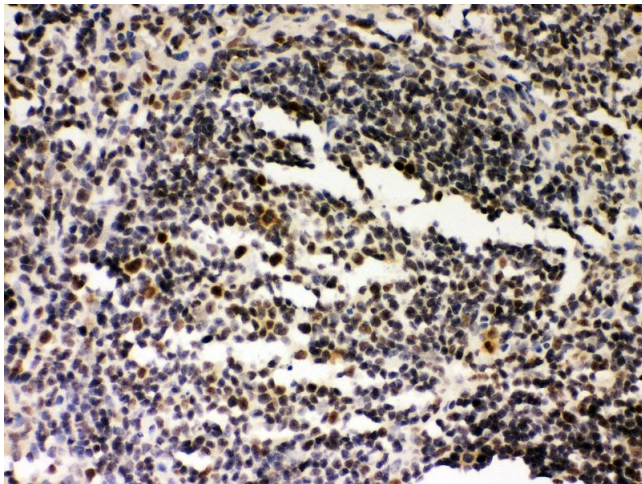
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Images



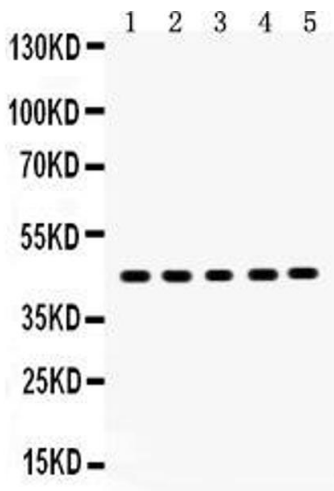
Immunohistochemistry

Image 1. Anti- SIRT7 Picoband antibody, IHC(P) IHC(P):
Mouse Spleen Tissue



Immunohistochemistry

Image 2. Anti- SIRT7 Picoband antibody, IHC(P) IHC(P): Rat Spleen Tissue



Western Blotting

Image 3. Anti- SIRT7 Picoband antibody, Western blottingAll lanes: Anti SIRT7 at 0.5ug/ml Lane 1: Rat Spleen Tissue Lysate at 50ug Lane 2: Rat Brain Tissue Lysate at 50ug Lane 3: Rat Intestine Tissue Lysate at 50ug Lane 4: SMMC Whole Cell Lysate at 40ug Lane 5: JURKAT Whole Cell Lysate at 40ugPredicted bind size: 45KDObserved bind size: 45KD