

Datasheet for ABIN3032595
anti-SIRT5 antibody (AA 263-292)



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3 Images

Overview

Quantity:	0.4 mL
Target:	SIRT5
Binding Specificity:	AA 263-292
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT5 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	A portion of amino acids 263-292 from the human protein was used as the immunogen for this SIRT5 antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	SIRT5
Alternative Name:	SIRT5 (SIRT5 Products)
Background:	SIRT5 is an NAD-dependent lysine demalonylase, desuccinylase and deglutarylase that specifically removes malonyl, succinyl and glutaryl groups on target proteins. Activates CPS1 and contributes to the regulation of blood ammonia levels during prolonged fasting: acts by

Target Details

mediating desuccinylation and deglutarylation of CPS1, thereby increasing CPS1 activity in response to elevated NAD levels during fasting. Activates SOD1 by mediating its desuccinylation, leading to reduced reactive oxygen species. Modulates ketogenesis through the desuccinylation and activation of HMGCS2 (By similarity). Has weak NAD-dependent protein deacetylase activity, however this activity may not be physiologically relevant in vivo. Can deacetylate cytochrome c (CYCS) and a number of other proteins in vitro such as UOX. [UniProt]

UniProt: [Q9NXA8](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: Titration of the SIRT5 antibody may be required due to differences in protocols and secondary/substrate sensitivity. IHC (Paraffin): 1:50-1:100, Western blot: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

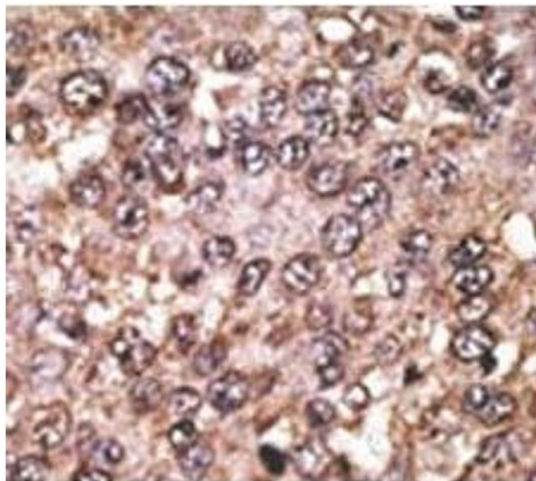
Buffer: In 1X PBS pH 7.4 with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the SIRT5 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



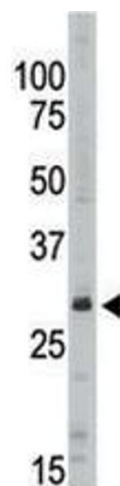
Immunohistochemistry

Image 1. IHC analysis of FFPE human hepatocarcinoma tissue stained with the SIRT5 antibody



Western Blotting

Image 2. Western blot analysis of SIRT5 antibody in Jurkat lysate



Western Blotting

Image 3. Western blot analysis of SIRT5 antibody in Jurkat lysate