

#### SIRT5 Rabbit mAb

**Catalog # AP76949** 

## **Specification**

#### SIRT5 Rabbit mAb - Product Information

Application
Primary Accession
Reactivity
Host
Clonality
Calculated MW

WB
O9NXA8
Human, Mouse
Rabbit
Monoclonal Antibody
33881

## SIRT5 Rabbit mAb - Additional Information

Gene ID 23408

Other Names SIRT5

**Dilution** WB~~1/500-1/1000

Format Liquid

## SIRT5 Rabbit mAb - Protein Information

Name SIRT5 {ECO:0000255|HAMAP-Rule:MF\_03160}

Synonyms SIR2L5

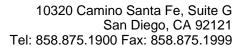
#### **Function**

NAD-dependent lysine demalonylase, desuccinylase and deglutarylase that specifically removes malonyl, succinyl and glutaryl groups on target proteins (PubMed:<a

href="http://www.uniprot.org/citations/21908771" target="\_blank">21908771</a>, PubMed:<a href="http://www.uniprot.org/citations/22076378" target="\_blank">22076378</a>, PubMed:<a href="http://www.uniprot.org/citations/24703693" target="\_blank">24703693</a>, PubMed:<a href="http://www.uniprot.org/citations/29180469" target="\_blank">29180469</a>). Activates CPS1 and contributes to the regulation of blood ammonia levels during prolonged fasting: acts by mediating desuccinylation and deglutarylation of CPS1, thereby increasing CPS1 activity in response to elevated NAD levels during fasting (PubMed:<a

href="http://www.uniprot.org/citations/22076378" target="\_blank">22076378</a>, PubMed:<a href="http://www.uniprot.org/citations/24703693" target="\_blank">24703693</a>). Activates SOD1 by mediating its desuccinylation, leading to reduced reactive oxygen species (PubMed:<a href="http://www.uniprot.org/citations/24140062" target="\_blank">24140062</a>). Activates SHMT2 by mediating its desuccinylation (PubMed:<a

href="http://www.uniprot.org/citations/29180469" target="\_blank">29180469</a>). 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.

## **Cellular Location**

Mitochondrion matrix. Mitochondrion intermembrane space. Cytoplasm, cytosol. Nucleus. Note=Mainly mitochondrial. Also present extramitochondrially, with a fraction present in the cytosol and very small amounts also detected in the nucleus [Isoform 2]: Mitochondrion {ECO:0000255|HAMAP-Rule:MF\_03160, ECO:0000269|PubMed:21143562}

## **Tissue Location**

Widely expressed..

## SIRT5 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# SIRT5 Rabbit mAb - Images

