

Datasheet for ABIN915303

## anti-SIRT4 antibody (AA 60-110) (AbBy Fluor® 555)



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### Overview

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Quantity:            | 100 µL                                               |
| Target:              | SIRT4                                                |
| Binding Specificity: | AA 60-110                                            |
| Reactivity:          | Human, Mouse, Rat                                    |
| Host:                | Rabbit                                               |
| Clonality:           | Polyclonal                                           |
| Conjugate:           | This SIRT4 antibody is conjugated to AbBy Fluor® 555 |
| Application:         | Western Blotting (WB)                                |

### Product Details

|                       |                                                                                |
|-----------------------|--------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic peptide derived from human SIRT4/SIR 2 like protein 4 |
| Isotype:              | IgG                                                                            |
| Cross-Reactivity:     | Mouse, Rat                                                                     |
| Predicted Reactivity: | Human,Cow,Sheep,Pig,Horse,Rabbit,Zebrafish,Drosophila                          |
| Purification:         | Purified by Protein A.                                                         |

### Target Details

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Target:           | SIRT4                                                                             |
| Alternative Name: | Sirt4 ( <a href="#">SIRT4 Products</a> )                                          |
| Background:       | Synonyms: SIR2L4, NAD-dependent protein deacetylase sirtuin-4, NAD-dependent ADP- |

## Target Details

ribosyltransferase sirtuin-4, Regulatory protein SIR2 homolog 4, SIR2-like protein 4, SIRT4

Background: Acts both as NAD-dependent protein ADP-ribosyl transferase and NAD-dependent protein deacetylase. Catalyzes the transfer of ADP-ribosyl groups onto target proteins, including mitochondrial GLUD1, inhibiting GLUD1 enzyme activity. Acts as a negative regulator of mitochondrial glutamine metabolism by mediating mono ADP-ribosylation of GLUD1: expressed in response to DNA damage and negatively regulates anaplerosis by inhibiting GLUD1, leading to block metabolism of glutamine into tricarboxylic acid cycle and promoting cell cycle arrest. In response to mTORC1 signal, SIRT4 expression is repressed, promoting anaplerosis and cell proliferation. Acts as a tumor suppressor. Also acts as a NAD-dependent protein deacetylase: mediates deacetylation of 'Lys-471' of MLYCD, inhibiting its activity, thereby acting as a regulator of lipid homeostasis. Down-regulates insulin secretion.

|           |                                                          |
|-----------|----------------------------------------------------------|
| Gene ID:  | 23409                                                    |
| UniProt:  | <a href="#">Q9Y6E7</a>                                   |
| Pathways: | <a href="#">Negative Regulation of Hormone Secretion</a> |

## Application Details

|                    |                                          |
|--------------------|------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200 |
| Restrictions:      | For Research Use only                    |

## Handling

|                    |                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                  |
| Concentration:     | 1 µg/µL                                                                                                                 |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.             |
| 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:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                       |
| Expiry Date:       | 12 months                                                                                                               |