Datasheet for ABIN915307

anti-SIRT4 antibody (AA 60-110) (AbBy Fluor® 647)

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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® 647
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 (SIRT4 Products)
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:	Q9Y6E7
Pathways:	Negative Regulation of Hormone Secretion

Application Details

Application Notes:	IF(IHC-P) 1:50-200 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