SIRT3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SIRT3, Polyclonal Antibody
Full Product Name	SIRT3 (C-Term) Rabbit pAb
Product Gene Name	anti-SIRT3 antibody
Product Synonym Names	NAD-dependent protein deacetylase sirtuin-3, mitochondrial; hSIRT3; 351-; Regulatory protein SIR2 homolog 3; SIR2-like protein 3; SIRT3; SIR2L3
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB01967
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Purity/Purification	Affinity Purified
OMIM	604481
3D Structure	ModBase 3D Structure for Q9NTG7
Immunogen	This SIRT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-279 amino acids from the C-terminal region of human SIRT3.
Cellular Localization	Mitochondrion
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIRT3 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SIRT3 antibody	WB: 1:2000 IHC: 1:50-100
Related Product Information for anti-SIRT3 antibody	MBS8554616 is an antibody targeting SIRT3. Also known as SIRT3 (C-Term) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-SIRT3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRT3. It may not necessarily be applicable to this product.

NCBI GI #	63054862
NCBI GeneID	23410
NCBI Accession #	NP_001017524.1
UniProt Primary Accession #	Q9NTG7

UniProt Related Accession #	Q9NTG7
GenBank Nucleotide #	NP_001017524.1
NCBI Official Full Name	NAD-dependent protein deacetylase sirtuin-3, mitochondrial isoform b
NCBI Official Synonym Full Names	sirtuin 3
NCBI Official Symbol	SIRT3
NCBI Official Synonym Symbols	SIR2L3
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-3, mitochondrial
UniProt Synonym Protein Names	Regulatory protein SIR2 homolog 3; SIR2-like protein 3
Protein Family	NAD-dependent protein deacetylase sirtuin
UniProt Gene Name	SIRT3
UniProt Synonym Gene Names	SIR2L3; hSIRT3
UniProt Entry Name	SIR3_HUMAN
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-3, mitochondrial
NCBI Summary for SIRT3	SIRT3 encodes a member of the sirtuin family of class III histone deacetylases, homologs to the yeast Sir2 protein. The encoded protein is found exclusively in mitochondria, where it can eliminate reactive oxygen species, inhibit apoptosis, and prevent the formation of cancer cells. SIRT3 has far-reaching effects on nuclear gene expression, cancer, cardiovascular disease, neuroprotection, aging, and metabolic control. [provided by RefSeq, May 2019]
UniProt Comments for SIRT3	SIRT3: a soluble mitochondrial NAD-dependent protein deacetylase. Can deacetylate and thereby activate a central metabolic regulator in the mitochondrial matrix, glutamate dehydrogenase. Mitochondrial proteins are hyperacetylated in SIRT3-deficient mice, but not in SIRT4 or SIRT5 deficient mice. SIRT3-deficient mice have no obvious metabolic phenotype, and the process of adaptive thermogenesis is normal. Can deacetylate and activate isocitrate dehydrogenase 2, an enzyme that participates in regulation of the citric acid cycle and the regeneration of antioxidants. Inhibited by nicotinamide, but not by trichostatin A. Its unprocessed form is enzymatically inactive. It is processed by mitochondrial processing peptidase (MPP) in the mitochondrial matrix to give an enzymatically active 28 kDa product. Protein type: Deacetylase; EC 3.5.1.-; Mitochondrial Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: mitochondrion; membrane; mitochondrial matrix Molecular Function: protein binding; enzyme binding; zinc ion binding; NAD-dependent histone deacetylase activity (H3-K14 specific); NAD+ ADP-ribosyltransferase activity Biological Process: mitochondrion organization and biogenesis; protein amino acid ADP-ribosylation; protein amino acid deacetylation; organelle organization and biogenesis; aerobic respiration; aging
Research Articles on SIRT3	**1.** these results identified a tumor-suppressive role for Sirt3 deficiency in tongue cancer via activation of the JNK-Fis1 axis and subsequent initiation of fatal mitochondrial fission.
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