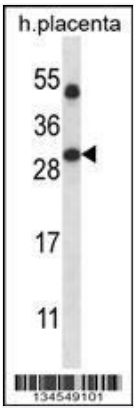
SIRT5 Antibody – Rabbit Polyclonal

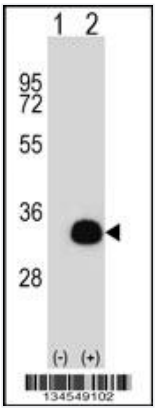
PRODUCT OVERVIEW

Product Name	SIRT5, Polyclonal Antibody
Full Product Name	SIRT5, ID (SIRT5, SIR2L5, NAD-dependent protein deacylase sirtuin-5, mitochondrial, Regulatory protein SIR2 homolog 5, SIR2-like protein 5) (Biotin)
Product Gene Name	anti-SIRT5 antibody
Product Synonym Names	SIRT5; SIR2L5; NAD-dependent protein deacylase sirtuin-5, mitochondrial; Regulatory protein SIR2 homolog 5; SIR2-like protein 5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	~60 kDa
Chromosome Location	Chromosome: 6; NC_000006.11 (13574506..13615390). Location: 6p23
OMIM	604483
3D Structure	ModBase 3D Structure for Q9NXA8
Immunogen	SIRT5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 98-127 amino acids from the Central region of human SIRT5.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-SIRT5 antibody	Antibodies; Mitochondrial Proteins
Applications Tested/Suitable for anti-SIRT5 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SIRT5 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SIRT5 antibody	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class III of the sirtuin family. Alternative splicing of this gene results in multiple transcript variants.

Product References and Citations for anti-SIRT5 antibody	Schlicker, C., et al. J. Mol. Biol. 382(3):790-801(2008). Yamamoto, H., et al. Mol. Endocrinol. 21(8):1745-1755(2007). Chowdari, K.V., et al. Genes Brain Behav. 6(3):229-239(2007). Mahlknecht, U., et al. Cytogenet. Genome Res. 112 (3-4), 208-212 (2006): Michishita, E., et al. Mol. Biol. Cell 16(10):4623-4635(2005).
Other Notes	Small volumes of anti-SIRT5 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.
Searchable Terms for SIRT5 purchase	MBS6347826 is an antibody targeting SIRT5. Also known as SIRT5, ID (SIRT5, SIR2L5, NAD-dependent protein deacylase sirtuin-5, mitochondrial, Regulatory protein SIR2 homolog 5, SIR2-like protein 5) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-SIRT5 antibody
SIRT5 Antibody (Center) western blot analysis in human placenta tissue lysates (35ug/lane).This demonstrates the SIRT5 antibody detected the SIRT5 protein (arrow).



Western Blot (WB) of anti-SIRT5 antibody
Western blot analysis of SIRT5 (arrow) using rabbit polyclonal SIRT5 Antibody (Center). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SIRT5 gene.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRT5. It may not necessarily be applicable to this product.

NCBI GI #	338827624
NCBI GeneID	23408
NCBI Accession #	NP_036373.1
NCBI Related Accession #	NP_112534.1
UniProt Primary Accession #	Q9NXA8
UniProt Secondary Accession #	Q5T294; Q5T295; Q9Y6E6; B4DFM4; B4DYJ5; F5H5Z9
UniProt Related Accession #	Q9NXA8
GenBank Nucleotide #	NM_012241
NCBI Official Full Name	Homo sapiens sirtuin 5 (SIRT5), transcript variant 1, mRNA
NCBI Official Synonym Full Names	sirtuin 5
NCBI Official Symbol	SIRT5
NCBI Official Synonym Symbols	SIR2L5
UniProt Protein Name	NAD-dependent protein deacylase sirtuin-5, mitochondrial
UniProt Synonym Protein Names	Regulatory protein SIR2 homolog 5; SIR2-like protein 5
Protein Family	NAD-dependent protein deacylase sirtuin
UniProt Gene Name	SIRT5
UniProt Synonym Gene Names	SIR2L5

UniProt Entry Name	SIR5_HUMAN
NCBI Protein Information	NAD-dependent protein deacylase sirtuin-5, mitochondrial; sir2-like 5; sirtuin type 5; SIR2-like protein 5; regulatory protein SIR2 homolog 5; NAD-dependent deacetylase sirtuin-5; silent mating type information regulation 2, S.cerevisiae, homolog 5; NAD-d
Research Articles on SIRT5	**1.** Downregulation of SIRT5 is associated with head and neck squamous cell carcinoma.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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