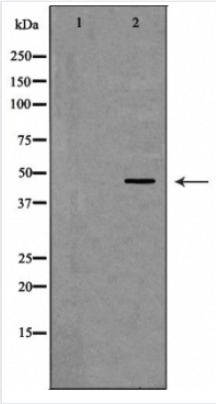
SIRT7 Antibody

PRODUCT OVERVIEW

Product Name	SIRT7, Antibody
Full Product Name	SIRT7 Antibody
Product Gene Name	anti-SIRT7 antibody
Product Synonym Names	SIRT7; MGC126840; MGC126842; SIR2L7
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	SIRT7 Antibody detects endogenous levels of total SIRT7
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	45kDa
OMIM	606212
3D Structure	ModBase 3D Structure for Q9NRC8
Immunogen	Recombinant protein of human SIRT7
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SIRT7 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-SIRT7 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-SIRT7 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.
Other Notes	Small volumes of anti-SIRT7 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 SIRT7 purchase	MBS8516078 is an antibody targeting SIRT7. Also known as SIRT7 Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-SIRT7 antibody
Western blot analysis of 293T cell and Helacell lysate using SIRT7 antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIRT7. It may not necessarily be applicable to this product.

NCBI GI #	7706712
NCBI GeneID	51547
NCBI Accession #	NP_057622.1
UniProt Primary Accession #	Q9NRC8
UniProt Secondary Accession #	Q3MIK4; Q9NSZ6; Q9NUS6; A8K2K0; B3KSU8
UniProt Related Accession #	Q9NRC8
GenBank Nucleotide #	NM_016538.2
NCBI Official Full Name	NAD-dependent protein deacetylase sirtuin-7
NCBI Official Synonym Full Names	sirtuin 7
NCBI Official Symbol	SIRT7
NCBI Official Synonym Symbols	SIR2L7
UniProt Protein Name	NAD-dependent protein deacetylase sirtuin-7
UniProt Synonym Protein Names	Regulatory protein SIR2 homolog 7; SIR2-like protein 7
Protein Family	NAD-dependent protein deacetylase
UniProt Gene Name	SIRT7
UniProt Synonym Gene Names	SIR2L7
NCBI Protein Information	NAD-dependent protein deacetylase sirtuin-7
NCBI Summary for SIRT7	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 IV of the sirtuin family. [provided by RefSeq, Jul 2008]
UniProt Comments for SIRT7	NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac). In contrast to other histone deacetylases, displays selectivity for a single histone mark, H3K18Ac, directly linked to control of gene expression. H3K18Ac is mainly present around the transcription start site of genes and has been linked to activation of nuclear hormone receptors. SIRT7 thereby acts as a transcription repressor. Moreover, H3K18 hypoacetylation has been reported as a marker of malignancy in various cancers and seems to maintain the transformed phenotype of cancer cells. These data suggest that SIRT7 may play a key role in oncogenic transformation by suppresses expression of tumor suppressor genes by locus-specific deacetylation of H3K18Ac at promoter regions. Also required to restore the transcription of ribosomal RNA (rRNA) at the exit from mitosis: promotes the association of RNA polymerase I with the rDNA promoter region and coding region. Stimulates transcription activity of the RNA polymerase I complex. May also deacetylate p53/TP53 and promotes cell survival, however such data need additional confirmation.
Research Articles on SIRT7	**1.** Authors evaluated the expression of known targets of miR-125a and found that sirtuin-7, matrix metalloproteinase-11, and c-Raf were up-regulated in tumor tissue by 2.2-, 3-, and 1.7-fold, respectively. Overall, these data support a tumor suppressor role for miR-125a.
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