

ARG56580 anti-SIRT6 antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes SIRT6
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	ICC/IF, IP, WB
Specificity	This antibody detects endogenous levels of SIRT6 and does not cross-react with related proteins.
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	SIRT6
Species	Human
Immunogen	Purified recombinant Human SIRT6 protein expressed in E. coli.
Conjugation	Un-conjugated
Alternate Names	SIR2L6; NAD-dependent protein deacetylase sirtuin-6; SIR2-like protein 6; Regulatory protein SIR2 homolog 6; EC 3.5.1.-

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:100
	IP	Assay-dependent
	WB	1:500
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 42 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.4), 0.03% Proclin-300 and 50% Glycerol.
Preservative	0.03% Proclin-300
Stabilizer	50% Glycerol
Concentration	2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links

[GeneID: 50721 Mouse](#)

[GeneID: 51548 Human](#)

[Swiss-port # P59941 Mouse](#)

[Swiss-port # Q8N6T7 Human](#)

Gene Symbol

SIRT6

Gene Full Name

sirtuin 6

Background

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. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jul 2010]

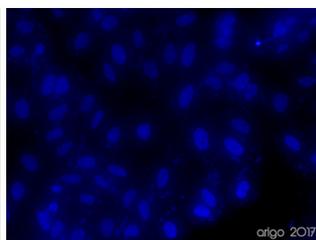
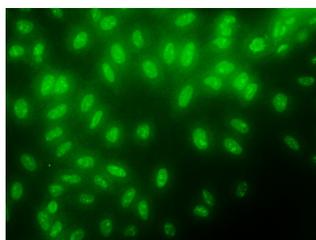
Function

NAD-dependent protein deacetylase. Has deacetylase activity towards histone H3K9Ac and H3K56Ac. Modulates acetylation of histone H3 in telomeric chromatin during the S-phase of the cell cycle. Deacetylates histone H3K9Ac at NF-kappa-B target promoters and may down-regulate the expression of a subset of NF-kappa-B target genes. Acts as a corepressor of the transcription factor HIF1A to control the expression of multiple glycolytic genes to regulate glucose homeostasis. Required for genomic stability. Regulates the production of TNF protein. Has a role in the regulation of life span (By similarity). Deacetylation of nucleosomes interferes with RELA binding to target DNA. May be required for the association of WRN with telomeres during S-phase and for normal telomere maintenance. Required for genomic stability. Required for normal IGF1 serum levels and normal glucose homeostasis. Modulates cellular senescence and apoptosis. On DNA damage, promotes DNA end resection via deacetylation of RBBP8. Has very weak deacetylase activity and can bind NAD(+) in the absence of acetylated substrate. [UniProt]

Calculated Mw

39 kDa

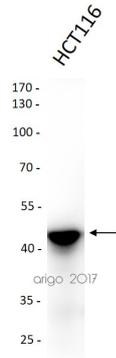
Images



ARG56580 anti-SIRT6 antibody ICC/IF image

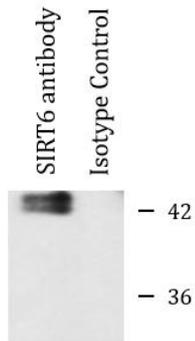
Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG56580 anti-SIRT6 antibody at 1:100 dilution. Left: primary antibody (green). Right: DAPI (blue).

Secondary antibody: [ARG55393](#) Goat anti-Mouse IgG (H+L) antibody (FITC)



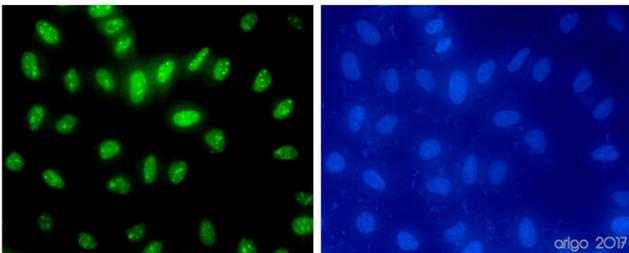
ARG56580 anti-SIRT6 antibody WB image

Western blot: 30 µg of HCT116 cell lysate stained with ARG56580 anti-SIRT6 antibody at 1:500 dilution.



ARG56580 anti-SIRT6 antibody IP image

Immunoprecipitation: HeLa cell lysates were immunoprecipitated and stained with ARG56580 anti-SIRT6 antibody.



ARG56580 anti-SIRT6 antibody ICC/IF image

Immunofluorescence: 100% Methanol fixed (RT, 10 min) HeLa cells stained with ARG56580 anti-SIRT6 antibody at 1:100 dilution. Left: primary antibody (green). Right: DAPI (blue).

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