Datasheet for ABIN7160866

anti-SIRT7 antibody (AA 242-379)

2 Images

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Overview

Quantity:	100 µg
Target:	SIRT7
Binding Specificity:	AA 242-379
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT7 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human NAD-dependent protein deacetylase sirtuin-7 protein (242-379AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	SIRT7
Alternative Name:	SIRT7 (SIRT7 Products)
Background:	Background: NAD-dependent protein deacetylase that specifically mediates deacetylation of histone H3 at \'Lys-18\' (H3K18Ac). In contrast to other histone deacetylases, displays

Target Details

	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. Aliases: NAD dependent deacetylase sirtuin 7 antibody, NAD dependent protein deacetylase sirtuin 7 antibody, NAD-dependent protein deacetylase sirtuin-7 antibody, Regulatory protein SIR2 homolog 7 antibody, Silent mating type information regulation 2 homolog antibody, Silent mating type information regulation 2 S.cerevisiae homolog 7 antibody, SIR2 L7 antibody, SIR2 like protein 7 antibody, Sir2 related protein type 7 antibody, SIR2, S.CEREVISIAE, HOMOLOG-LIKE 7 antibody, SIR2-like protein 7 antibody, SIR2L 7 antibody, SIR2L7 antibody, SIR7_HUMAN antibody, SIRT 7 antibody, SIRT7 antibody, Sirtuin 7 antibody, Sirtuin type 7 antibody, Sirtuin7 antibody
UniProt:	Q9NRC8

Application Details

Application Notes:	Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,
Restrictions:	For Research Use only

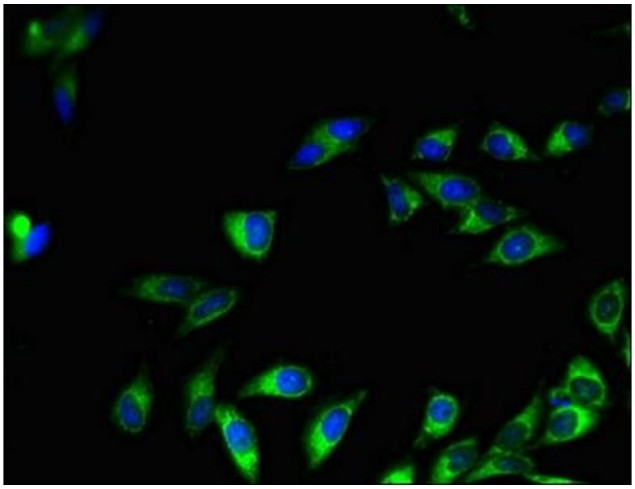
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C

Handling

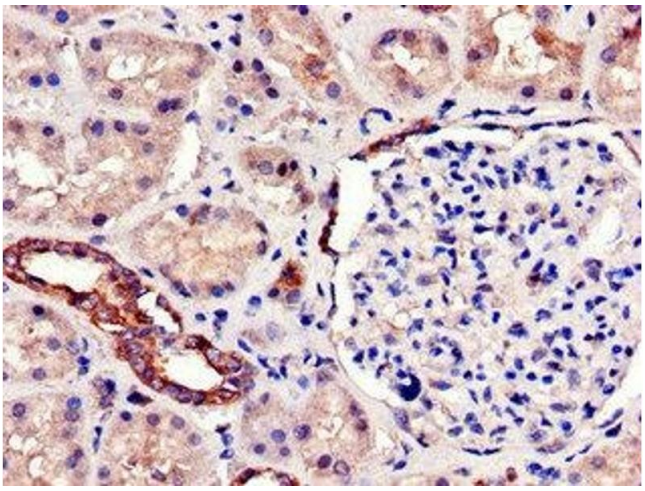
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunofluorescence

Image 1. Immunofluorescent analysis of Hela cells using ABIN7160866 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human kidney tissue using ABIN7160866 at dilution of 1:100

