Datasheet for ABIN760571

anti-SIRT7 antibody (AA 231-330)

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Overview

Quantity:	100 µL
Target:	SIRT7
Binding Specificity:	AA 231-330
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SIRT7 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human SIRT7
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Dog,Pig,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	SIRT7

Target Details

Alternative Name:	Sirt7 (SIRT7 Products)
Background:	Synonyms: SIR2L7, NAD-dependent protein deacetylase sirtuin-7, Regulatory protein SIR2 homolog 7, SIR2-like protein 7, SIRT7 Background: 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.
Gene ID:	51547
UniProt:	Q9NRC8

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL

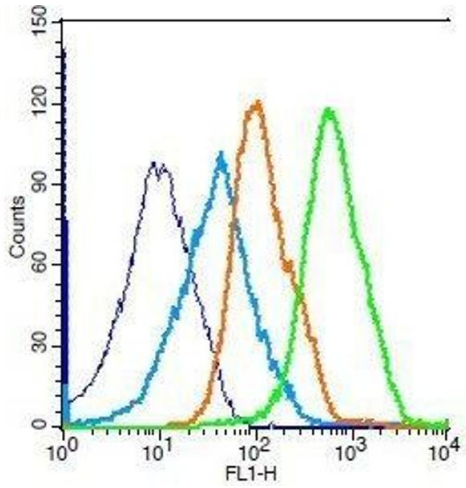
Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:	Wronska, Lawniczak, Wierzbicki, Kmiec: "Age-Related Changes in Sirtuin 7 Expression in Calorie-Restricted and Refed Rats." in: **Gerontology**, Vol. 62, Issue 3, pp. 304-10, (2016) (PubMed). Takumida, Takumida, Anniko: "Localization of sirtuins in the mouse inner ear." in: **Acta oto-laryngologica**, Vol. 134, Issue 4, pp. 331-8, (2014) (PubMed).

Images



Flow Cytometry

Image 1. Mouse splenocytes probed with Rabbit Anti-SIRT7 Polyclonal Antibody, Unconjugated .