



SIRT7 mouse mAb

Catalog No	YP-mAb-17955
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SIRT7 SIR2L7
Immunogen	Synthesized peptide derived from human SIRT7
Specificity	This antibody detects endogenous levels of SIRT7 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SIR2L7;SIR2 like protein 7;NAD-dependent protein deacylase sirtuin-7; EC:2.3.1.286;EC:2.3.1.-;SIRT7;SIRT7 SIR2L7;NAD-dependent protein deacetylase sirtuin-7 (EC 3.5.1.-) (Regulatory protein SIR2 homolog 7) (SIR2-like protein 7)
Observed Band	45 kDa
Calculated Molecular Weight	400 aa, 45 kDa
Cell Pathway	Nucleus, nucleolus . Nucleus, nucleoplasm . Chromosome . Cytoplasm . Mainly localizes in the nucleolus and nucleoplasm (PubMed:24207024, PubMed:28886238, PubMed:28790157, PubMed:31075303). Associated with rDNA promoter and transcribed region (PubMed:16079181, PubMed:19174463). Associated with nucleolar organizer regions during mitosis (PubMed:16079181, PubMed:19174463). In response to stress, released from nucleolus to nucleoplasm (PubMed:24207024). Associated with chromatin (PubMed:22722849). In response to DNA damage, recruited to DNA double-strand breaks (DSBs) sites (PubMed:27436229) (Probable). Located close to the nuclear membrane when in the cytoplasm (PubMed:11953824). .
Tissue Specificity	

**Function**

NAD-dependent protein-lysine deacylase that can act both as a deacetylase or deacylase (desuccinylase, depropionylase and deglutarylase), depending on the context . Specifically mediates deacetylation of histone H3 at 'Lys-18' (H3K18Ac) . In contrast to other histone deacetylases, displays strong preference for a specific 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 . Also able to mediate deacetylation of histone H3 at 'Lys-36' (H3K36Ac) in the context of nucleosomes . Also mediates deacetylation of non-histone proteins, su

Background**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images