

Immunotag™ SIRT7 Antibody

Antibody Specification	
Catalog No.	ITA6245
Product Description	Immunotag™ SIRT7 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	SIRT7
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human SIRT7
Specificity	SIRT7 Antibody detects endogenous levels of total SIRT7
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	SIRT7
Accession No.	Q9NRC8
Alternate Names	NAD dependent deacetylase sirtuin 7; NAD dependent protein deacetylase sirtuin 7; NAD-dependent protein deacetylase sirtuin-7; Regulatory protein SIR2 homolog 7; Silent mating type information regulation 2 homolog; Silent mating type information regulation 2 S.cerevisiae homolog 7; SIR2 L7; SIR2 like protein 7; Sir2 related protein type 7; SIR2, S.CEREVISIAE, HOMOLOG-LIKE 7; SIR2-like protein 7; SIR2L 7; SIR2L7; SIR7_HUMAN; SIRT 7; SIRT7; Sirtuin 7; Sirtuin type 7; Sirtuin7;

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Description	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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	45kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.