Product datasheet for TA347291

SIRT1 Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blotting (1:500)
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for anti-SirT1 antibody: human SirT1 (NAD-dependent deacetylase sirtuin-1) using a synthetic peptide.
Concentration:	lot specific
Purification:	Protein G purified monoclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sirtuin 1
Database Link:	NP_036370 Entrez Gene 23411 Human Q96EB6
Background:	SirT1 (UniProtKB/Swiss-Prot entry Q96EB6) is a NAD-dependent deacetylase, which regulates processes such as apoptosis and muscle differentiation by the deacetylation of key regulatory proteins. Deacetylation of lysine 382 of p53/TP53 by Sirt1 impairs its ability to induce the proapoptotic program and modulate cell senescence, whereas deacetylation of TAF1B represses rDNA transcription by the RNA polymerase I. SirT1 is also involved in HES1- and HEY2-mediated transcriptional repression and inhibits skeletal muscle differentiation by deacetylating PCAF and MYOD1. SirT1 is recruited to the nuclear bodies via its interaction with PML.
Synonyms:	SIR2; SIR2alpha; SIR2L1

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Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Product images:
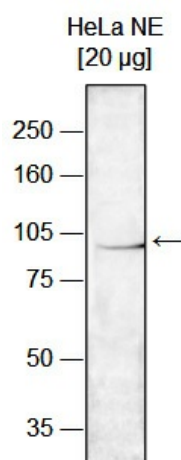
WB was performed using nuclear extracts from HeLa cells (HeLa NE, 20 ug) and the antibody against hSirT1 diluted 1:500 in TBS-Tween containing 5% skimmed milk. The molecular weight marker (in kDa) is shown on the left), the position of the protein of interest is shown on the right.