



# SIRT1 mouse mAb

<b>Catalog No</b>	BYab-03473
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	WB;IP
<b>Gene Name</b>	sirt1
<b>Protein Name</b>	
<b>Immunogen</b>	Purified recombinant human SIRT1 protein fragments expressed in E.coli.
<b>Specificity</b>	This antibody detects endogenous levels of SIRT1 and does not cross-react with related proteins.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	wb dilution 1:1000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	75SirT1;BA57G10.4;BA57G10.4;hSIR2;hSIRT1;HST2, S. cerevisiae, homolog of;NAD dependent deacetylase SIRT1;NAD dependent deacetylase sirtuin 1;NAD dependent protein deacetylase sirtuin 1;OTTHUMP00000198111;OTTHUMP00000198112;Regulatory protein SIR2 homolog 1;SIR1_HUMAN;SIR2 like 1;SIR2 like protein 1;SIR2, S.cerevisiae, homolog-like 1;SIR2-like protein 1;SIR2ALPHA;SIR2ALPHA;SIR2alpha protein;SIR2alpha protein;SIR2L1;SIRT 1;Sirt1;SIRT1 Sir2 like proteins (siruitins) type 1;SIRT1: sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae);SIRT1: sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae);SirtT1 75 kDa fragment;sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae);Sirtuin 1; sirtuin;Sirtuin type 1;Sirtuin type 1.
<b>Observed Band</b>	85-110kD

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<b>Cell Pathway</b>	Nucleus, PML body . Cytoplasm . Nucleus . Recruited to the nuclear bodies via its interaction with PML (PubMed:12006491). Colocalized with APEX1 in the nucleus (PubMed:19934257). May be found in nucleolus, nuclear euchromatin, heterochromatin and inner membrane (PubMed:15469825). Shuttles between nucleus and cytoplasm (By similarity). Colocalizes in the nucleus with XBP1 isoform 2 (PubMed:20955178). .; [SirtT1 75 kDa fragment]: Cytoplasm . Mitochondrion .
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	catalytic activity:NAD(+) + an acetylprotein = nicotinamide + O-acetyl-ADP-ribose + a protein.,cofactor:Binds 1 zinc ion per subunit.,enzyme regulation:Inhibited by nicotinamide. Activated by resveratrol (3,5,4'-trihydroxy-trans-stilbene), butein (3,4,2',4'-tetrahydroxychalcone), piceatannol (3,5,3',4'-tetrahydroxy-trans-stilbene), Isoliquiritigenin (4,2',4'-trihydroxychalcone), fisetin (3,7,3',4'-tetrahydroxyflavone) and quercetin (3,5,7,3',4'-pentahydroxyflavone). RPS19BP1/AROS acts as a positive regulator of deacetylation activity.,function:NAD-dependent deacetylase, which regulates processes such as apoptosis and muscle differentiation by deacetylating key proteins. Deacetylates 'Lys-382' of p53/TP53 and impairs its ability to induce proapoptotic program and modulate cell senescence. Deacetylates TAF1B and thereby represses rDNA transcription by the RNA polymerase I. Involved in HES1
<b>Background</b>	This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2008],
<b>matters needing attention</b>	Avoid repeated freezing and thawing!
<b>Usage suggestions</b>	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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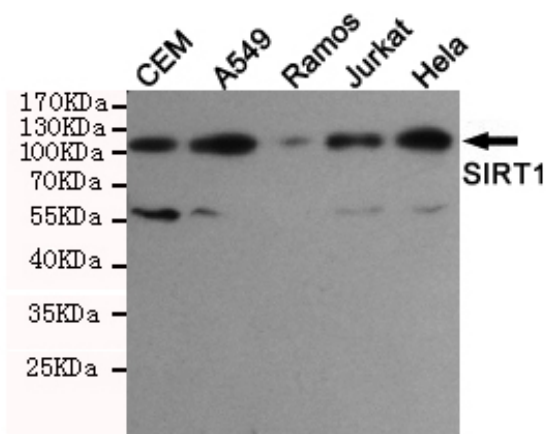
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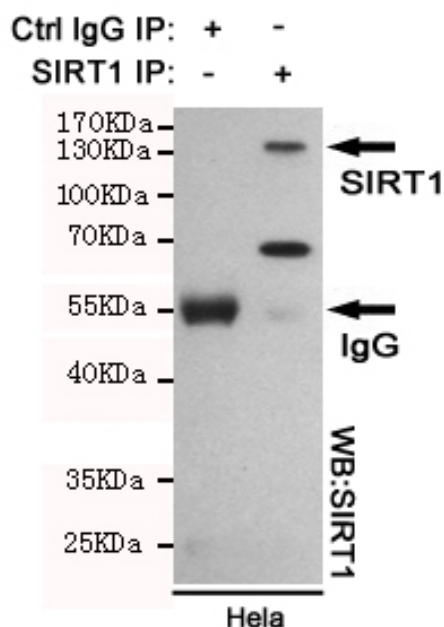
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## Products Images



Western blot detection of SIRT1 in HeLa, Jurkat, Ramos, A549 and CEM cell lysates using SIRT1 mouse mAb (1:1000 diluted). Predicted band size: 120KDa. Observed band size: 120KDa.



Immunoprecipitation analysis of HeLa cell lysates using SIRT1 mouse mAb.