



SirT2 mouse mAb

Catalog No	BYab-03456
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF
Gene Name	sirt2
Protein Name	
Immunogen	Purified recombinant human SirT2 protein expressed in E.coli.
Specificity	This antibody detects endogenous levels of SirT2 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	FLJ35621;FLJ37491;NAD dependent deacetylase sirtuin 2;NAD-dependent deacetylase sirtuin-2;NAD-dependent protein deacetylase sirtuin-2;Regulatory protein SIR2 homolog 2;Silencing information regulator 2 like;Silent information regulator 2;Silent mating type information regulation 2;Silent mating type information regulation 2 homolog;SIR 2;SIR2;SIR2 like;SIR2 like protein 2;Sir2 related protein type 2;SIR2, S. cerevisiae, homolog-loke 2;SIR2-like protein 2;SIR2L;SIR2L2;SIRT 2;SIRT2;SIRT2_HUMAN;Sirtuin (silent mating type information regulation 2 homolog) 2 (S.cerevisiae);Sirtuin 2;Sirtuin type 2;Sirtuin2.
Observed Band	43kD
Cell Pathway	Nucleus . Cytoplasm, perinuclear region . Cytoplasm . Cytoplasm, cytoskeleton . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, centriole . Cytoplasm, cytoskeleton, spindle . Midbody . Chromosome . Perikaryon . Cell projection . Cell projection, growth cone . Myelin membrane . Localizes in the cytoplasm during most of the cell cycle except in the G2/M transition and during mitosis, where it is localized in association with chromatin and induces deacetylation of histone at

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	'Lys-16' (H4K16ac) (PubMed:17726514, PubMed:23468428). Colocalizes with KMT5A at mitotic foci (PubMed:23468428). Colocalizes with CDK1 at centrosome during prophase and spindle fibers during metaphase (PubMed:17488717). Colocalizes w
Tissue Specificity	Isoform 1 is expressed in heart, liver and skeletal muscle, weakly expressed in the cortex. Isoform 2 is strongly expressed in the cortex, weakly expressed in heart and liver. Weakly expressed in several malignancies including breast, liver, brain, kidney and prostate cancers compared to normal tissues. Weakly expressed in glioma cell lines compared to normal brain tissues (at protein level). Widely expressed. Highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network.
Function	catalytic activity:NAD(+) + an acetylprotein = nicotinamide + O-acetyl-ADP-ribose + a protein.,cofactor:Binds 1 zinc ion per subunit.,developmental stage:Peaks during mitosis. After mitosis, it is probably degraded by the 26S proteasome.,enzyme regulation:Inhibited by Sirtinol, A3 and M15 small molecules. Inhibited by nicotinamide.,function:NAD-dependent deacetylase, which deacetylates the 'Lys-40' of alpha-tubulin. Involved in the control of mitotic exit in the cell cycle, probably via its role in the regulation of cytoskeleton. Despite some ability to deacetylate histones in vitro, it is unlikely in vivo.,PTM:Phosphorylated at the G2/M transition of the cell cycle.,similarity:Belongs to the sirtuin family.,similarity:Contains 1 deacetylase sirtuin-type domain.,subcellular location:Colocalizes with microtubules.,subunit:Interacts with HDAC6, suggesting that these proteins belong to a la
Background	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. Several transcript variants are resulted from alternative splicing of this gene. [provided by RefSeq, Jul 2010],
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.

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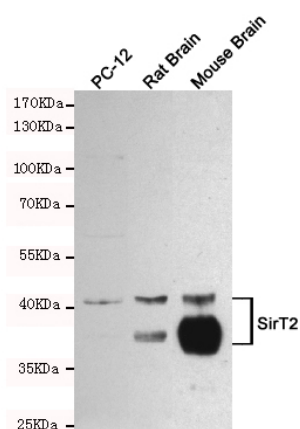
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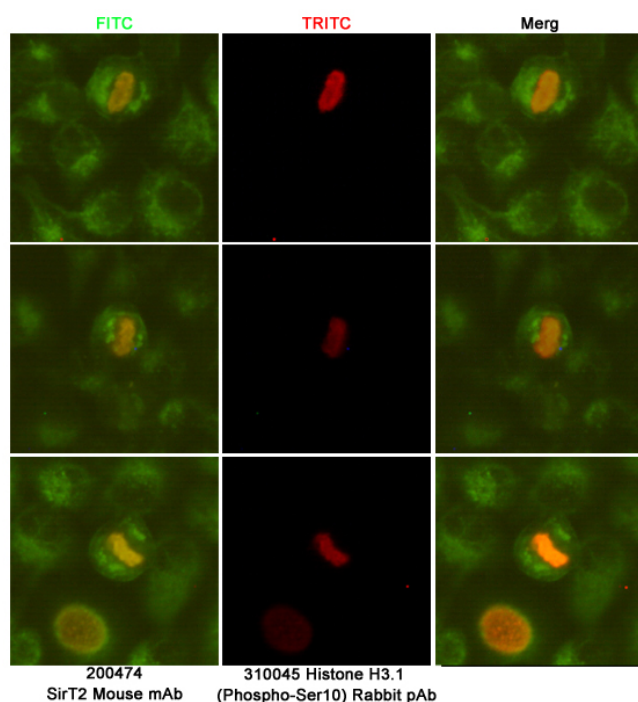
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Products Images



Western blot detection of SirT2 in PC-12, Rat Brain and Mouse Brain cell lysates using SirT2 mouse mAb (1:1000 diluted). Predicted band size: 39,43KDa. Observed band size: 39,43KDa.



Immunofluorescent analysis of HeLa cells fixed by anhydrous methanol at -20°C and using SirT2 (200474, dilution 1:50) mouse mAb (green) and Histone H3.1 (Phospho-Ser10) (310045, dilution 1:200) Rabbit pAb (red).