

Anti-SIRT2 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

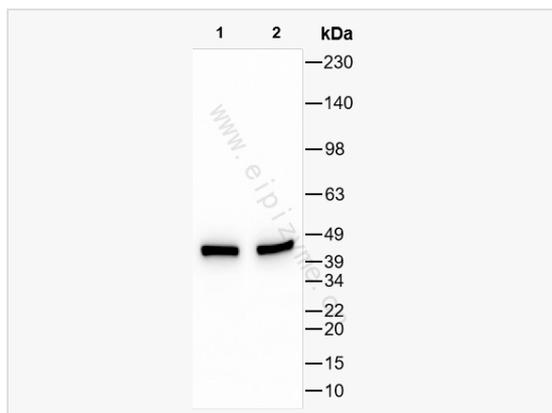
Catalog # M011582

Product Information

Application	WB, ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Mouse
Clonality	Monoclonal
Clone No.	22K86L74
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human SIRT2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SIRT2 Mouse mAb [22K86L74] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	SIR2; SIR2L; SIR2L2; SIR2_HUMAN; SIRT2; NAD-dependent protein defatty-acylase sirtuin-2; Regulatory protein SIR2 homolog 2; SIR2-like protein 2; 2.3.1.286.
Calculated MW	Calculated MW: 43 kDa; Observed MW: 43 kDa
Uniprot ID	Q8IXJ6
Gene ID	22933
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]
Cellular Location	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 '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 with Aurora kinase AURKA at centrosome during early



Western Blot - Anti-SIRT2 Mouse mAb [22K86L74]

All lanes: M011582 at 1:1,000 dilution

Lane 1: Mouse brain whole tissue lysates

Lane 2: Rat brain whole tissue lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 43 kDa

Observed band size: 43 kDa

Developed using the ECL technique (Cat. No. SQ201).