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SIRT2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SIRT2.
Catalog # AT3891a

Product Information

Application	WB, IF, E
Primary Accession	Q8IXJ6
Other Accession	BC003012
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4B11
Calculated MW	43182

Additional Information

Gene ID	22933
Other Names	NAD-dependent protein deacetylase sirtuin-2, 351-, Regulatory protein SIR2 homolog 2, SIR2-like protein 2, SIRT2, SIR2L, SIR2L2
Target/Specificity	SIRT2 (AAH03012, 128 a.a. ~ 227 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SIRT2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

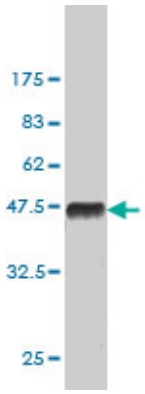
Background

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.

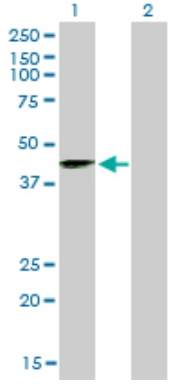
References

Cytosolic FoxO1 is essential for the induction of autophagy and tumour suppressor activity. Zhao Y, et al. Nat Cell Biol, 2010 Jul. PMID 20543840.SIRT2 inhibition achieves neuroprotection by decreasing sterol biosynthesis. Luthi-Carter R, et al. Proc Natl Acad Sci U S A, 2010 Apr 27. PMID 20378838.Novel gamma-secretase inhibitors uncover a common nucleotide-binding site in JAK3, SIRT2, and PS1. Wu F, et al. FASEB J, 2010 Jul. PMID 20237298.A DNAJB chaperone subfamily with HDAC-dependent activities suppresses toxic protein aggregation. Hageman J, et al. Mol Cell, 2010 Feb 12. PMID 20159555.SIRT2 downregulation confers resistance to microtubule inhibitors by prolonging chronic mitotic arrest. Inoue T, et al. Cell Cycle, 2009 Apr 15. PMID 19282667.

Images

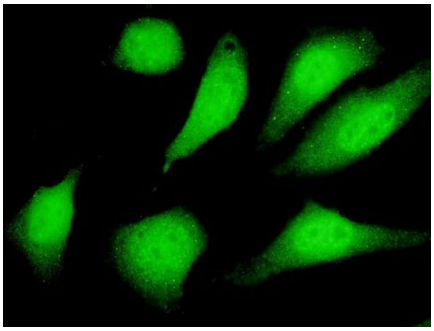


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

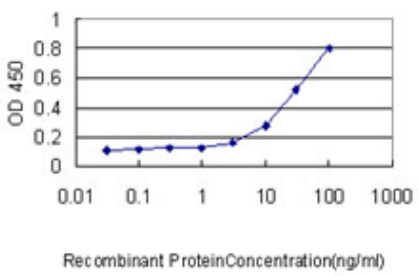


Western Blot analysis of SIRT2 expression in transfected 293T cell line by SIRT2 monoclonal antibody (M01), clone 4B11.

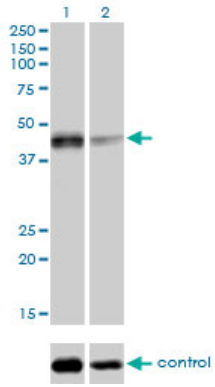
Lane 1: SIRT2 transfected lysate(39.5 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to SIRT2 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged SIRT2 is approximately 0.1ng/ml as a capture antibody.



Western blot analysis of SIRT2 over-expressed 293 cell line, cotransfected with SIRT2 Validated Chimera RNAi ((Cat # AT3891a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.