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SIRT1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SIRT1.
Catalog # AT3889a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q96EB6
Other Accession	BC012499
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	7B7
Calculated MW	81681

Additional Information

Gene ID	23411
Other Names	NAD-dependent protein deacetylase sirtuin-1, hSIRT1, 351-, Regulatory protein SIR2 homolog 1, SIR2-like protein 1, hSIR2, SirtT1 75 kDa fragment, 75SirT1, SIRT1, SIR2L1
Target/Specificity	SIRT1 (AAH12499, 456 a.a. ~ 555 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 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	SIRT1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

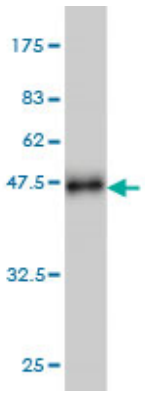
Background

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. Alternative splicing results in multiple transcript variants.

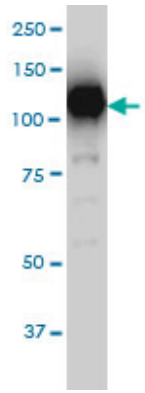
References

1.Simvastatin inhibits Cyr61 expression in rheumatoid arthritis synovial fibroblasts through the regulation of SIRT1/FoxO3a signaling.Kok SH, Lin LD, Hou KL, Hong CY, Chang CC, Hsiao M, Wang JH, Lai EH, Lin SK.Arthritis Rheum. 2012 Dec 12. doi: 10.1002/art.37807.2.Remodeling of ribosomal genes in somatic cells by Xenopus egg extract.Ostrup O, Hyttel P, Klarke DA, Collas P.Biochem Biophys Res Commun. 2011 Aug 6. [Epub ahead of print]3.Identification of DBC1 as a transcriptional repressor for BRCA1.Hiraike H, Wada-Hiraike O, Nakagawa S, Koyama S, Miyamoto Y, Sone K, Tanikawa M, Tsuruga T, Nagasaka K, Matsumoto Y, Oda K, Shoji K, Fukuhara H, Saji S, Nakagawa K, Kato S, Yano T, Taketani Y.Br J Cancer. 2010 Mar 16;102(6):1061-7. Epub 2010 Feb 16.

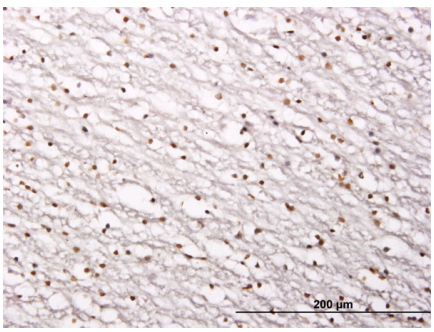
Images



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

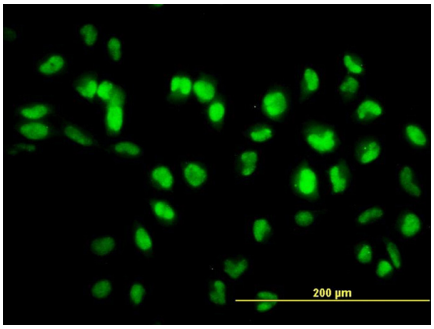


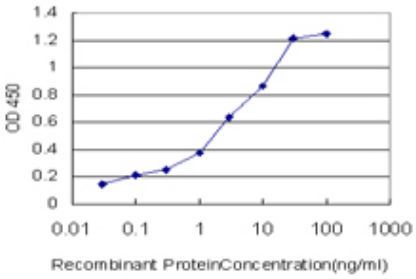
SIRT1 monoclonal antibody (M01), clone 7B7 Western Blot analysis of SIRT1 expression in Hela S3 NE ((Cat # AT3889a)



Immunoperoxidase of monoclonal antibody to SIRT1 on formalin-fixed paraffin-embedded human lateral ventricle wall. [antibody concentration 1 ug/ml]

Immunofluorescence of monoclonal antibody to SIRT1 on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged SIRT1 is approximately 0.1ng/ml as a capture antibody.

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