

## **SIRT1 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant SIRT1.

Catalog # AT3889a

### **Specification**

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#### **SIRT1 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB, IHC, E
Primary Accession	<a href="#">O96EB6</a>
Other Accession	<a href="#">BC012499</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	81681

#### **SIRT1 Antibody (monoclonal) (M01) - 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

##### **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.

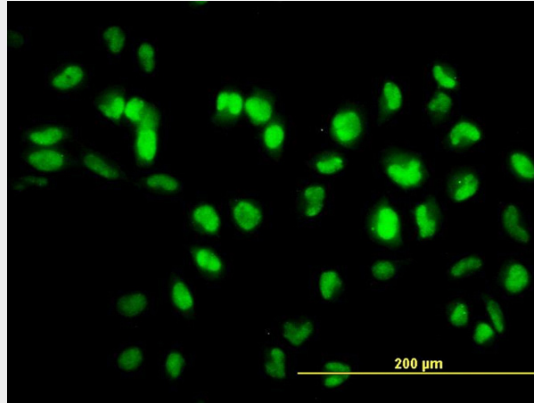
#### **SIRT1 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

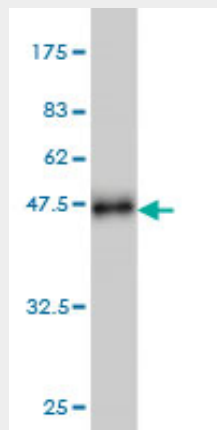
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

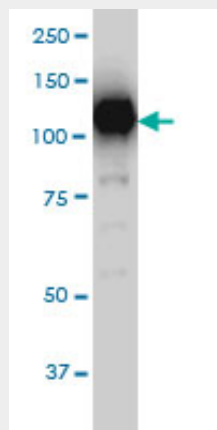
### SIRT1 Antibody (monoclonal) (M01) - Images



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

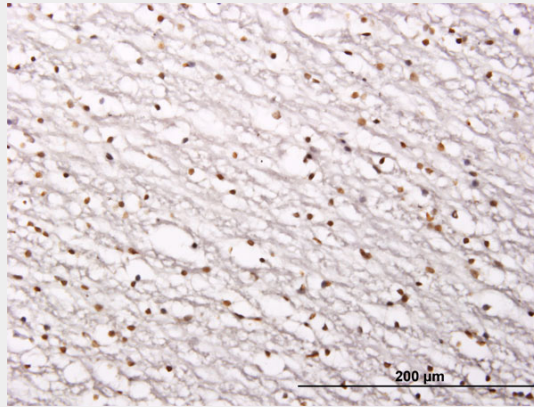


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .

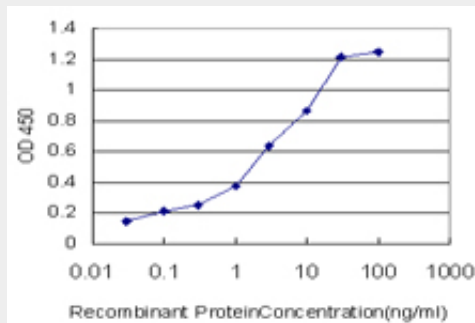


SIRT1 monoclonal antibody (M01), clone 7B7 Western Blot analysis of SIRT1 expression in HeLa S3

NE ( (Cat # AT3889a )



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



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

### **SIRT1 Antibody (monoclonal) (M01) - 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.

### **SIRT1 Antibody (monoclonal) (M01) - 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.