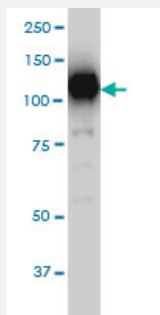


SIRT1 monoclonal antibody (M01), clone 7B7

Catalog # H00023411-M01

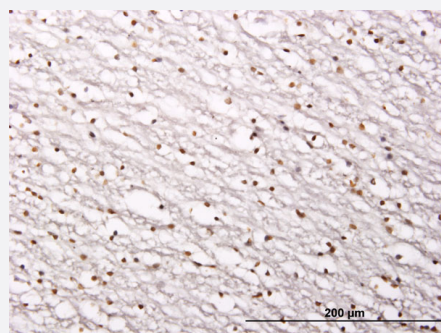
Size 100 ug

Applications



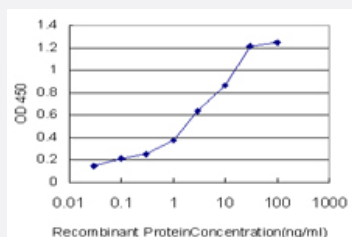
Western Blot (Cell lysate)

SIRT1 monoclonal antibody (M01), clone 7B7 Western Blot analysis of SIRT1 expression in HeLa S3 NE (Cat # L013V3).



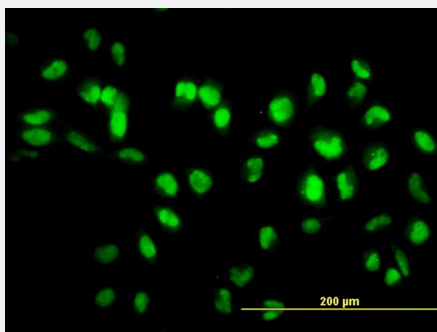
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



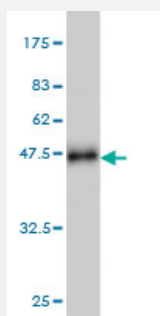
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

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



Western Blot detection against Immunogen (36.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant SIRT1.
Immunogen	SIRT1 (AAH12499, 456 a.a. ~ 555 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	NRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEEPMEDESEIEEFYNGLEDEPDVPER AGGAGFGTDGDDQEAINAISVKQEVTD MNYP SNKS
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

SIRT1 monoclonal antibody (M01), clone 7B7 Western Blot analysis of SIRT1 expression in Hela S3 NE (Cat # L013V3).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

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

[Protocol Download](#)

- ELISA

- Immunofluorescence

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

Gene Info — SIRT1

Entrez GeneID [23411](#)

GeneBank Accession# [BC012499](#)

Protein Accession# [AAH12499](#)

Gene Name SIRT1

Gene Alias SIR2L1

Gene Description sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)

Omim ID [604479](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

OTTHUMP00000019691|OTTHUMP00000060745|SIR2alpha|sir2-like 1|sirtuin 1|sirtuin type 1

Publication Reference

- [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 and Rheumatism 2013 Mar; 65(3):639.

Application: WB, Human, Rheumatoid arthritis synovial fibroblasts (RASFs)

- [Remodeling of ribosomal genes in somatic cells by Xenopus egg extract.](#)

Ostrup O, Hyttel P, Klarke DA, Collas P.

Biochemical and Biophysical Research Communications 2011 Sep; 412(3):487.

Application: ChIP, Frog, Frog egg extracts

- [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.

British Journal of Cancer 2010 Mar; 102(6):1061.

Application: WB-Tr, Human, HeLa cells

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Depressive Disorder](#)

- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Obesity](#)
- [Overweight](#)
- [Psychiatric Status Rating Scales](#)
- [Tobacco Use Disorder](#)