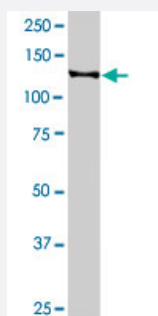


SIRT1 polyclonal antibody

Catalog # PAB0004

Size 100 ug

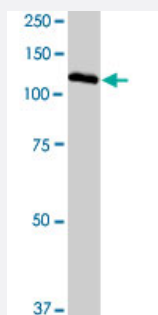
Applications



Western Blot (Tissue lysate)

SIRT1 polyclonal antibody (Cat # PAB0004). Western blot analysis of SIRT1 in human pancreas.

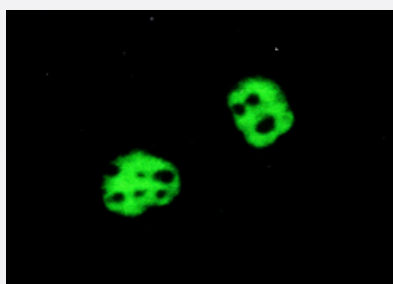
(SIRT is a phosphoprotein which increases the size of the protein. The actual band size observed may differ from that predicted.)



Western Blot (Cell lysate)

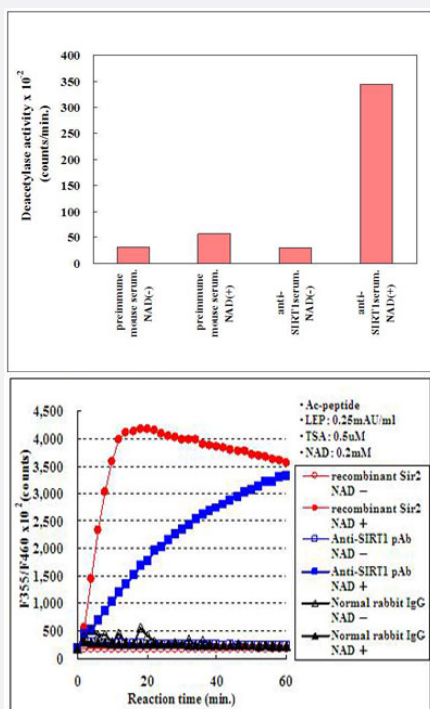
SIRT1 polyclonal antibody (Cat # PAB0004). Western blot analysis of SIRT1 in Jurkat.

(SIRT is a phosphoprotein which increases the size of the protein. The actual band size observed may differ from that predicted.)



Immunofluorescence

Subcellular localization of SIRT1 on 293T cell.



Immunoprecipitation

Measurement of 293T cell endogenous SIRT1 activity in an immunoprecipitate using SIRT1 polyclonal antibody (Cat # PAB0004) by means of SIRT1/Sir2 Deacetylase Fluorometric (Human) Assay Kit (Cat # KA0105).

Specification

Product Description	Rabbit polyclonal antibody raised against a recombinant full length SIRT.
Immunogen	Recombinant protein corresponding to full length SIRT.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	SIRT1 Antibody detects endogenous levels of SIRT1 protein. The antibody does not cross-react with type I and II HDAC proteins.
Recommend Usage	Immunoprecipitation (1-2 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM phosphate buffer, 150 mM NaCl, pH 7.2 (50% glycerol)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

SIRT1 polyclonal antibody (Cat # PAB0004). Western blot analysis of SIRT1 in human pancreas.

(SIRT is a phosphoprotein which increases the size of the protein. The actual band size observed may differ from that predicted.)

[Protocol Download](#)

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SIRT1 polyclonal antibody (Cat # PAB0004). Western blot analysis of SIRT1 in Jurkat.

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Gene Info — SIRT1

Entrez GeneID [23411](#)

GeneBank Accession# [NM_012238](#)

Protein Accession# [NP_036370](#)

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

- [Edible Bird's Nest Attenuates Menopause-Related Bone Degeneration in Rats via Increasing Bone Estrogen-Receptor Expression.](#)

Zhi-Ping Hou, Shi-Ying Tang, Hai-Ru Ji, Pei-Yuan He, Yu-Hong Li, Xian-Ling Dong, Meng-Nan Du, Ismail Maznah, Wen-Jing He.
Chinese Journal of Integrative Medicine 2021 Apr; 27(4):280.

Application: IHC-P, Rat, Rat femurs

- [Edible Bird's Nest Prevents Menopause-Related Memory and Cognitive Decline in Rats via Increased Hippocampal Sirtuin-1 Expression.](#)

Hou Z, He P, Imam MU, Qi J, Tang S, Song C, Ismail M.
Oxidative Medicine and Cellular Longevity 2017 Sep; 2017:7205082.

Application: IHC-P, Rat, Rat brain

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](#)