

Product datasheet for **AM20993PU-N**

SIRT1 (456-555) Mouse Monoclonal Antibody [Clone ID: 7B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	7B7
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA. Immunofluorescence: 10 µg/ml. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein, SIRT1 (AAH12499, 456 a.a. ~ 555 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Specificity:	This antibody reacts to Sirtuin-1 (SIRT1) at aa 456-555.
Formulation:	PBS, pH 7.4 State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	sirtuin 1
Database Link:	Entrez Gene 23411 Human Q96EB6



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Background:

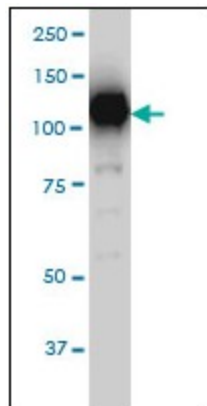
The SIRT family of genes are highly conserved from prokaryotes to eukaryotes and are involved in diverse processes including transcriptional regulation, cell cycle progression, DNA damage repair and aging. Sirtuins utilize NAD⁺ as a substrate to catalyze deacetylation of specific acetylated protein and histones. SIRT1 has been shown to be induced by caloric restriction (CR) in several tissues and SIRT1 mediated deacetylase activity attenuates B-amyloid content in the brain during CR. SIRT1 also regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53.

Synonyms:

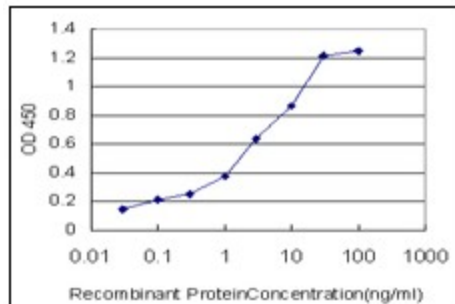
SIRT-1, SIR2-like protein 1, SIR2L1, sirtuin type 1, sirtuin 1, sirtuin-1, SIR2alpha

Protein Families:

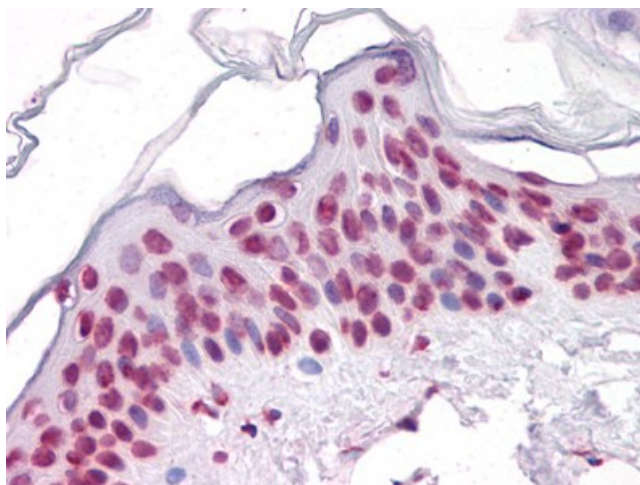
Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Product images:


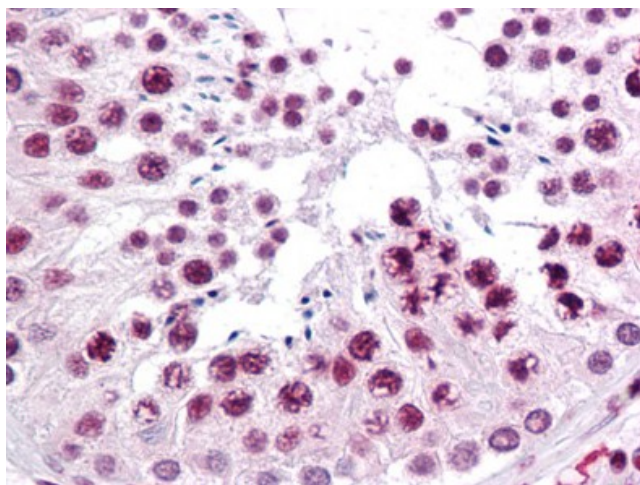
SIRT1 monoclonal antibody, clone 7B7 Western Blot analysis of SIRT1 expression in Hela NE.



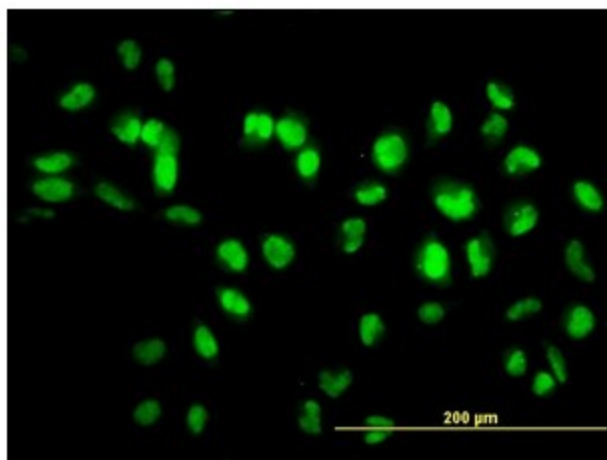
Detection limit for recombinant GST tagged SIRT1 is approximately 0.1 ng/ml as a capture antibody.



Human Skin: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Testis: Formalin-Fixed, Paraffin-Embedded (FFPE)



Immunofluorescence of monoclonal antibody to SIRT1 on HeLa cell (antibody concentration 10 ug/ml).