

## Product datasheet for **TA809859AM**

### **SIRT1 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI12H3]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	OTI12H3
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 552-676 of human SIRT1(NP_036370) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	81.5 kDa
Gene Name:	sirtuin 1
Database Link:	<a href="#">NP_036370</a> <a href="#">Entrez Gene 93759 Mouse</a> <a href="#">Entrez Gene 309757 Rat</a> <a href="#">Entrez Gene 23411 Human</a> <a href="#">Q96EB6</a>



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**Background:**

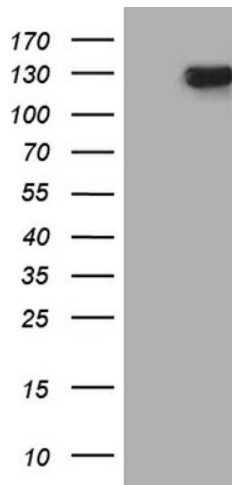
This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known 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. [provided by RefSeq, Dec 2008]

**Synonyms:**

SIR2; SIR2alpha; SIR2L1

**Protein Families:**

Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SIRT1 ([RC218134], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SIRT1 (1:2000). Positive lysates [LY402173] (100ug) and [LC402173] (20ug) can be purchased separately from OriGene.