

## Product datasheet for **TA306534**

### SIRT2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	WB: 1 - 2 ug/mL, ICC: 2.5 ug/mL, IF: 5 ug/mL
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	SIRT2 antibody was raised against a 19 amino acid peptide near the carboxy terminus of the human SIRT2.
Formulation:	PBS containing 0.02% sodium azide.
Purification:	Affinity chromatography purified via peptide column
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sirtuin 2
Database Link:	<a href="#">NP_036369</a> <a href="#">Entrez Gene 64383 MouseEntrez Gene 361532 RatEntrez Gene 22933 Human</a> <a href="#">Q8IXJ6</a>

**Background:** The founding member of the sirtuin protein family was the silent information regulator 2 protein (Sir2p) of *Saccharomyces cerevisiae*, an NAD<sup>+</sup>-dependent histone deacetylase (HDAC) that regulates chromatin silencing. The SIR2 family of genes are highly conserved from prokaryotes to eukaryotes. Mammals have seven homologs of Sir2p, SIRT1-7, which are involved in diverse processes ranging from transcriptional regulation, cell cycle progression and DNA-damage repair to aging. SIRT2 is a predominantly cytoplasmic protein that colocalizes with microtubules and can deacetylate  $\alpha$ -tubulin and regulate progression through the cell cycle. Most Sirtuins are highly expressed in brain and testis, while Sirt2 expression is higher in fetal relative to adult brain. Recent studies on SIRT2 support the therapeutic utility of inhibitors for the treatment of neurodegenerative diseases such as Parkinson's disease.

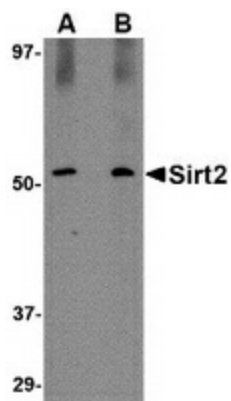


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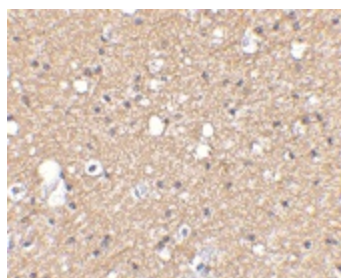
Synonyms: SIR2; SIR2L; SIR2L2

Protein Families: Druggable Genome, Transcription Factors

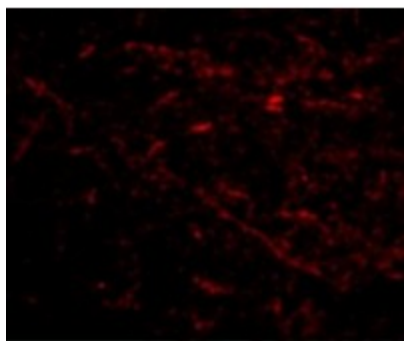
### Product images:



Western blot analysis of SIRT2 in Mouse brain lysate with SIRT2 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemical staining of human brain tissue using Sirt2 antibody at 2.5 ug/ml.



Immunofluorescence of SIRT2 in Human Brain tissue with SIRT2 antibody at 5 ug/mL.