

## Product datasheet for **TA336801**

### **SIRT1 Mouse Monoclonal Antibody [Clone ID: 1F3]**

#### **Product data:**

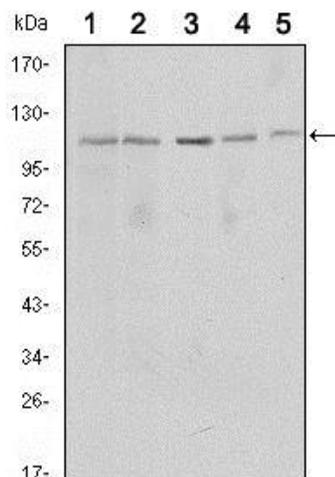
<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	1F3
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommend Dilution:</b>	WB: 1:500-1:2000, ELISA: 1:10000, FC: 1 ug per million cells, IF: 1:10-1:1000, IHC: 1:200-1:1000, IHC-P: 1:200-1:1000
<b>Reactivity:</b>	Human, Mouse, Primate, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Purified recombinant fragment of human SIRT1 expressed in E. coli. [UniProt# Q96EB6]
<b>Formulation:</b>	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	Ammonium sulfate precipitation
<b>Predicted Protein Size:</b>	120 kDa
<b>Gene Name:</b>	sirtuin 1
<b>Database Link:</b>	<a href="#">NP_036370</a> <a href="#">Entrez Gene 93759</a> <a href="#">MouseEntrez Gene 309757</a> <a href="#">RatEntrez Gene 23411</a> <a href="#">Human</a>
<b>Background:</b>	SIRT1, the human homolog of the <i>S. cerevisiae</i> Sir2 protein, functions as an NAD-dependent deacetylase of a number of nonhistone substrates including p53. In response to DNA damage, SIRT1 binds and deacetylates the p53 protein at c-terminal Lys382 residue and attenuate p53-mediated functions. When overexpressed in mouse embryo fibroblasts, SIRT1 antagonizes PML-induced acetylation of p53 and rescues PML-mediated premature cellular senescence. In mammalian cells, SIRT1 appears to control the cellular response to stress by regulating the FOXO family of forkhead transcription factors.
<b>Synonyms:</b>	SIR2; SIR2alpha; SIR2L1
<b>Note:</b>	This SIRT1 (1F3) antibody is useful for Western blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded sections and ELISA.



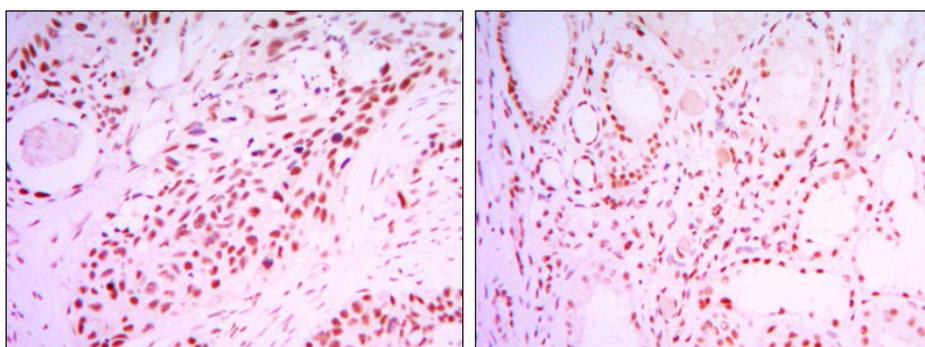
[View online »](#)

**Protein Families:** Druggable Genome, Stem cell - Pluripotency, Transcription Factors

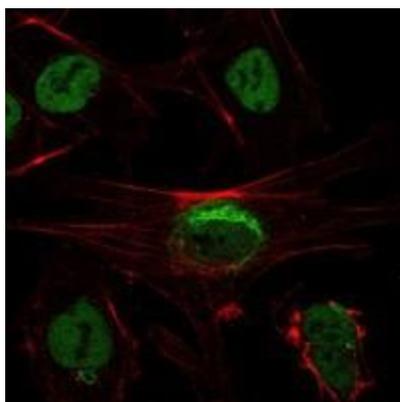
**Product images:**



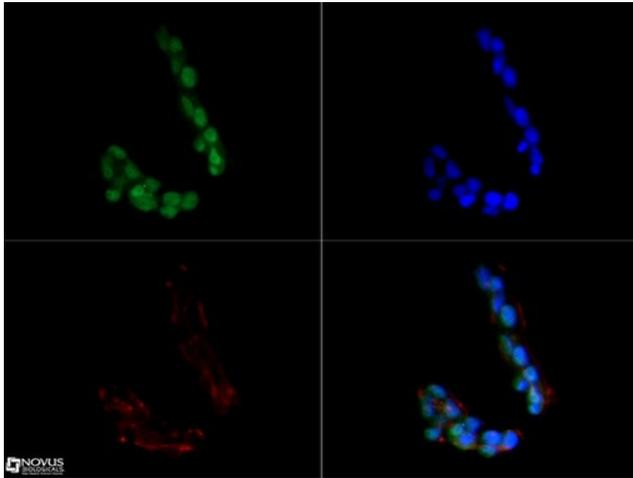
Western Blot: SIRT1 Antibody (1F3) TA336801 - Western blot analysis using SIRT1 mouse mAb against MCF-7 (1), Jurkat (2), HeLa (3), HEK293 (4) and A549 (5) cell lysates.



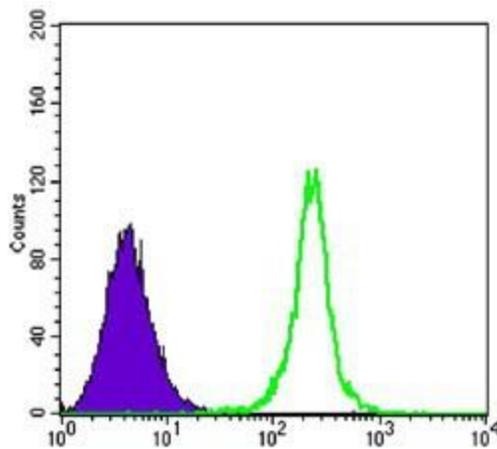
Immunohistochemistry-Paraffin: SIRT1 Antibody (1F3) TA336801 - Immunohistochemical analysis of paraffin-embedded lung cancer tissues (left) and kidney cancer tissues (right) using SIRT1 mouse mAb with DAB staining.



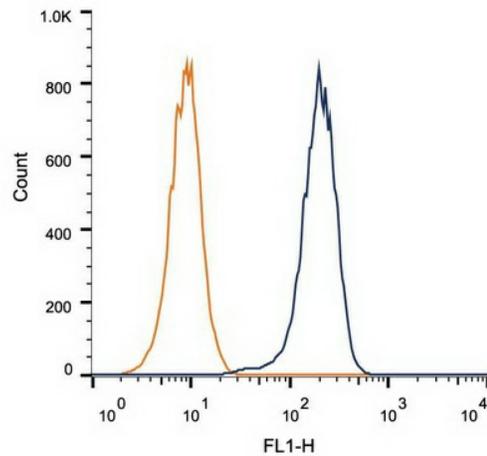
Immunocytochemistry/Immunofluorescence: SIRT1 Antibody (1F3) TA336801 - Analysis of NTERA-2 cells using SIRT1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunocytochemistry/Immunofluorescence: SIRT1 Antibody (1F3) TA336801 - SIRT1 antibody was tested at 1:10 in Ntera2 cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image objective 40x.



Flow Cytometry: SIRT1 Antibody (1F3) TA336801 - Flow cytometric analysis of K562 cells using SIRT1 mouse mAb (green) and negative control (purple).



Flow Cytometry: SIRT1 Antibody (1F3) TA336801 - Intracellular flow cytometric staining of  $1 \times 10^6$  HEK-293 cells using SIRT1 antibody (dark blue). Isotype control shown in orange. An antibody concentration of 1 ug/ $1 \times 10^6$  cells was used.