

## Product datasheet for **CF503282**

### **SIRT5 Mouse Monoclonal Antibody [Clone ID: OTI2A11]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI2A11
<b>Applications:</b>	FC, IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:500, IHC 1:150, IF 1:50~100, FLOW 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human SIRT5(NP_036373) produced in HEK293 cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	33.7 kDa
<b>Gene Name:</b>	sirtuin 5
<b>Database Link:</b>	<a href="#">NP_036373</a> <a href="#">Entrez Gene 68346 Mouse</a> <a href="#">Entrez Gene 306840 Rat</a> <a href="#">Entrez Gene 23408 Human</a> <a href="#">Q9NXA8</a>



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**Background:**

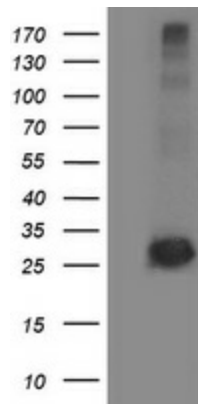
This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known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

**Synonyms:**

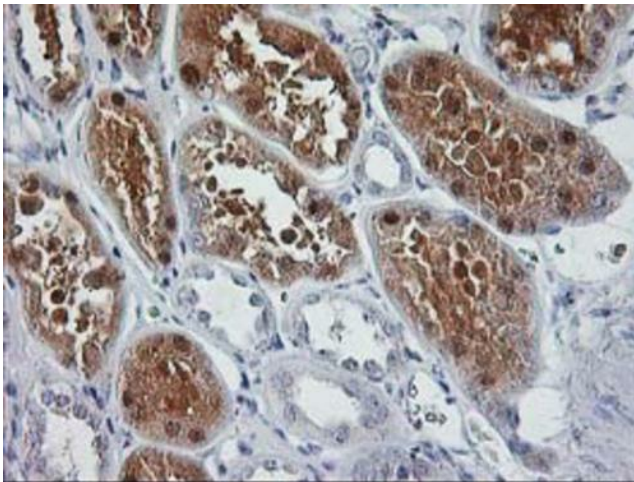
SIR2L5

**Protein Families:**

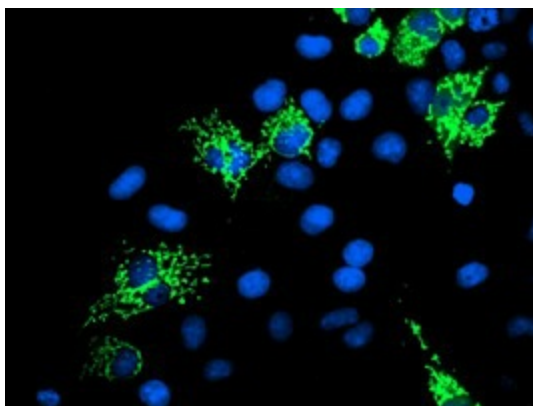
Druggable Genome, Transcription Factors

**Product images:**

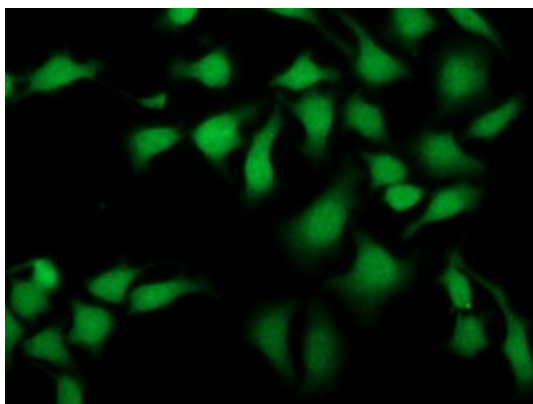
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SIRT5 ([RC200189], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SIRT5. Positive lysates [LY415885] (100ug) and [LC415885] (20ug) can be purchased separately from OriGene.



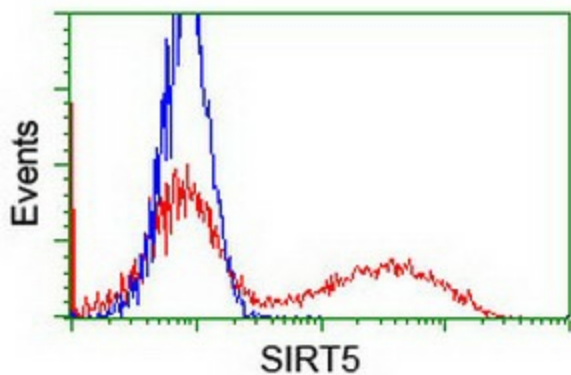
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-SIRT5 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA503282])



Anti-SIRT5 mouse monoclonal antibody ([TA503282]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY SIRT5 ([RC200189]).



Immunofluorescent staining of HeLa cells using anti-SIRT5 mouse monoclonal antibody ([TA503282]).



HEK293T cells transfected with either [RC200189] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SIRT5 antibody ([TA503282]), and then analyzed by flow cytometry.