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Product datasheet for CF503279

SIRT5 Mouse Monoclonal Antibody [Clone ID: OTI 1G9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI 1G9
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SIRT5 (NP_036373) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	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)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	sirtuin 5
Database Link:	NP_036373 Entrez Gene 68346 MouseEntrez Gene 306840 RatEntrez Gene 23408 Human Q9NXA8

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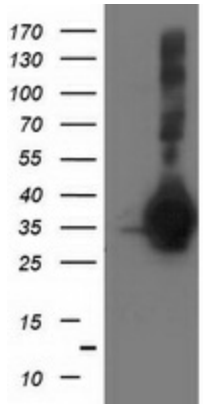
Background: This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins 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, Jul 2010]

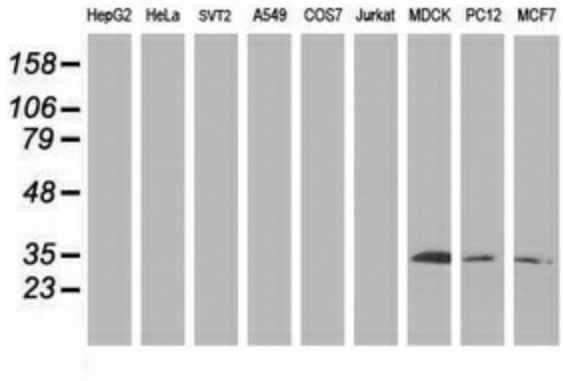
Synonyms: SIR2L5

Protein Families: Druggable Genome, Transcription Factors

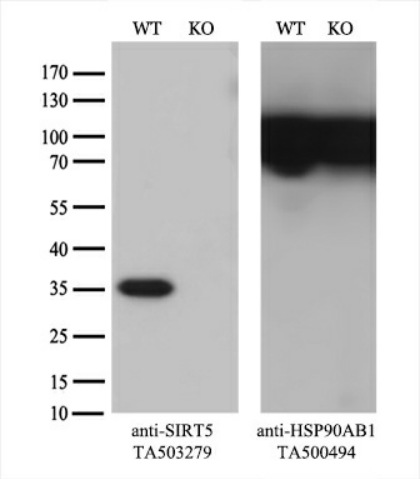
Product images:



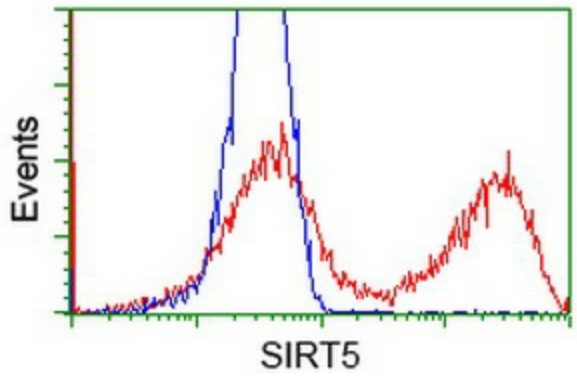
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SIRT5 ([RC200189], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SIRT5. Positive lysates [LY415885] (100ug) and [LC415885]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



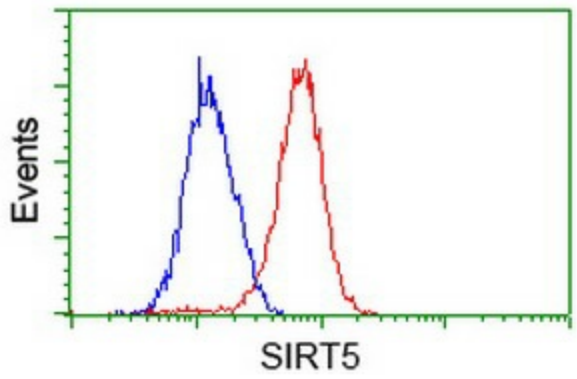
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-SIRT5 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



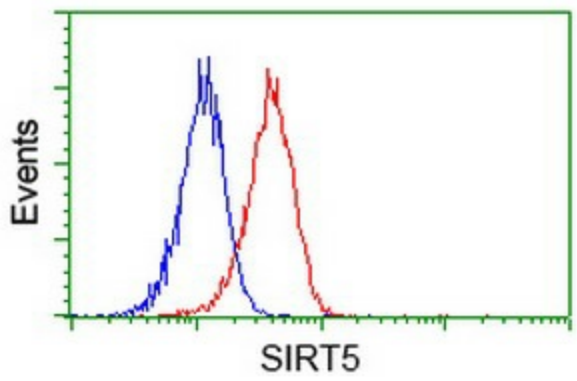
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and SIRT5-Knockout HeLa cells (KO, Cat# [LC830483]) were separated by SDS-PAGE and immunoblotted with anti-SIRT5 monoclonal antibody [TA503279] (1:500). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



HEK293T cells transfected with either [RC200189] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SIRT5 antibody ([TA503279]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Hela cells, using anti-SIRT5 antibody ([TA503279]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-SIRT5 antibody ([TA503279]), (Red), compared to a nonspecific negative control antibody, (Blue).