

产品名称: SIRT1 Mouse Monoclonal Antibody
产品货号: AMM80879



产品概述 (Summary)

产品名称 (Production Name)	SIRT1 Mouse Monoclonal Antibody
描述 (Description)	Mouse monoclonal Antibody
宿主 (Host)	Mouse
应用 (Application)	WB,IHC,ICC,ELISA,FC
种属反应性 (Reactivity)	Human,Mouse,Rat,Rabbit,Monkey

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	Mouse IgG1
克隆 (Clonality)	Monoclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Purified antibody in PBS with 0.05% sodium azide.
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	SIRT1
别名 (Alternative Names)	SIR2L1; SIRT1
基因 ID (Gene ID)	23411.0
蛋白 ID (SwissProt ID)	Q96EB6.Purified recombinant fragment of human SIRT1 expressed in E. Coli.

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:200-1:1000,ICC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
蛋白分子量 (Molecular Weight)	120kDa

研究背景 (Background)

The Sir2 protein in yeast is known to function in transcriptional silencing processes through the deacetylation of histones

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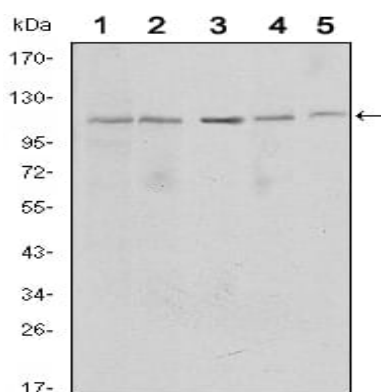


H3 and H4. The more recently described human homologue of Sir2, known as SIRT1, has been found to associate with the tumor suppressor protein p53. SIRT1 binds and deacetylates p53 with specificity for its C-terminal Lys382 residue in response to the upregulation of promyelocytic leukemia protein (PML) nuclear bodies or oncogenic Ras. The deacetylation of p53 SIRT1 has been shown to negatively regulate p53-mediated transcription, preventing cellular senescence and apoptosis induced by DNA damage and stress. SIRT1 has the closest homology to the yeast Sir2p and is widely expressed in fetal and adult tissues, with high expression in heart, brain and skeletal muscle and low expression in lung and placenta. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lysine 382.

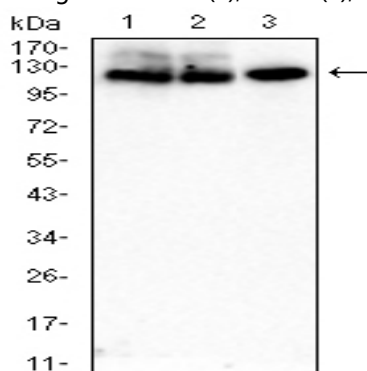
研究领域 (Research Area)

Apoptosis

图片 (Image Data)

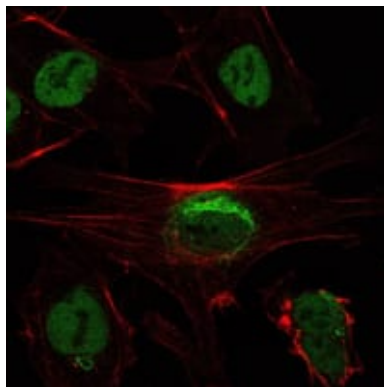


Western blot analysis using SIRT1 mouse mAb against MCF-7 (1), Jurkat (2), HeLa (3), HEK293 (4) and A549 (5) cell lysate.

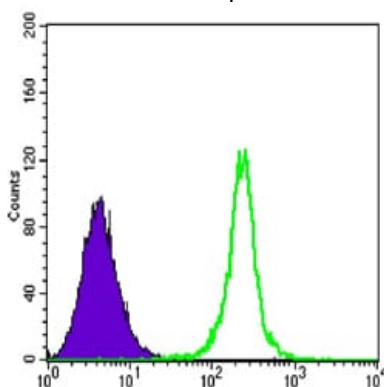


Western blot analysis using SIRT1 mouse mAb against L1210(1), F9(2), HeLa(3) cell lysate.

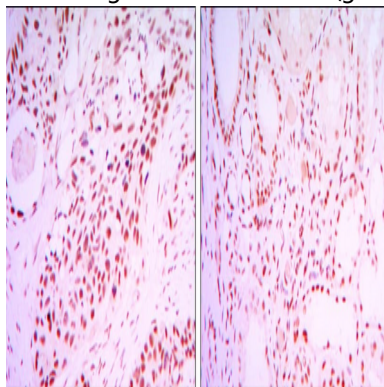
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Immunofluorescence analysis of NTERA-2 cells using SIRT1 mouse mAb (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

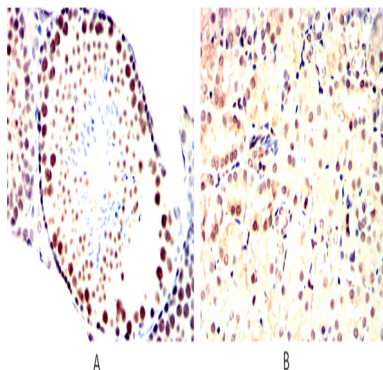


Flow cytometric analysis of K562 cells using SIRT1 mouse mAb (green) and negative control (purple).

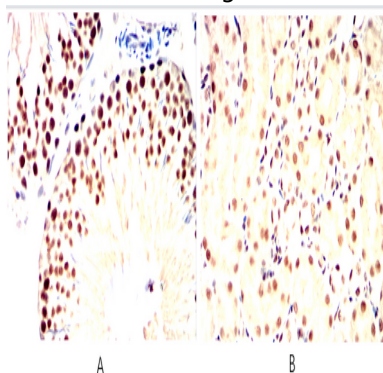


Immunohistochemical analysis of paraffin-embedded human lung cancer tissues (left) and kidney cancer tissues (right) using SIRT1 mouse mAb with DAB staining.

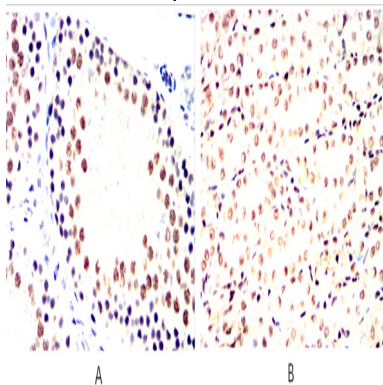
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Immunohistochemical analysis of paraffin-embedded Mouse testis(A) Mouse kidney(B) using SIRT1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat spleen(A) Rat liver(B) using SIRT1 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit spleen(A) Rabbit liver(B) using SIRT1 mouse mAb with DAB staining.

注意事项 (Note)

For research use only .