

产品名称: FOXO3A Rabbit Monoclonal Antibody
产品货号: AMRe83849



产品概述 (Summary)

产品名称 (Production Name)	FOXO3A Rabbit Monoclonal Antibody
描述 (Description)	Recombinant rabbit monoclonal antibody
宿主 (Host)	Rabbit
应用 (Application)	WB, ICC
种属反应性 (Reactivity)	Human, Mouse, Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
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, 0.05% protective protein and 50% glycerol.
纯化方式 (Purification)	Affinity Purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	FOXO3A
别名 (Alternative Names)	Forkhead box protein O3; AF6q21 protein; Forkhead in rhabdomyosarcoma-like 1; FOXO3; FKHL1; FOXO3A; FOXO3A
基因 ID (Gene ID)	
蛋白 ID (SwissProt ID)	O43524.A synthesized peptide derived from human FOXO3A

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:1000-1:2000, ICC 1:50-1:200
蛋白分子量 (Molecular Weight)	Calculated MW: 71 kDa ; Observed MW: 90 kDa

研究背景 (Background)

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Transcriptional activator that recognizes and binds to the DNA sequence 5'-[AG]TAA[TC]A-3' and regulates different processes, such as apoptosis and autophag. Acts as a positive regulator of autophagy in skeletal muscle: in starved cells, enters the nucleus following dephosphorylation and binds the promoters of autophagy genes, such as GABARAP1L, MAP1LC3B and ATG12, thereby activating their expression, resulting in proteolysis of skeletal muscle proteins. Triggers apoptosis in the absence of survival factors, including neuronal cell death upon oxidative stress.

Participates in post-transcriptional regulation of MYC: following phosphorylation by MAPKAPK5, promotes induction of miR-34b and miR-34c expression, 2 post-transcriptional regulators of MYC that bind to the 3'UTR of MYC transcript and prevent its translation (PubMed:21329882).

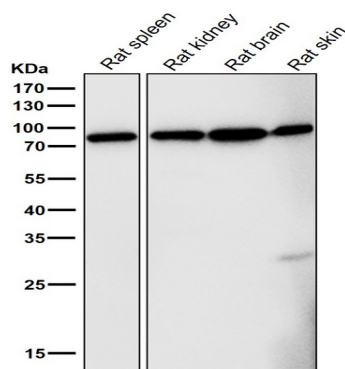
In response to metabolic stress, translocates into the mitochondria where it promotes mtDNA transcription (PubMed:23283301).

In response to metabolic stress, translocates into the mitochondria where it promotes mtDNA transcription. Also acts as a key regulator of chondrogenic commitment of skeletal progenitor cells in response to lipid availability: when lipids levels are low, translocates to the nucleus and promotes expression of SOX9, which induces chondrogenic commitment and suppresses fatty acid oxidation (By similarity).

Also acts as a key regulator of regulatory T-cells (Treg) differentiation by activating expression of FOXP3 (PubMed:30513302).

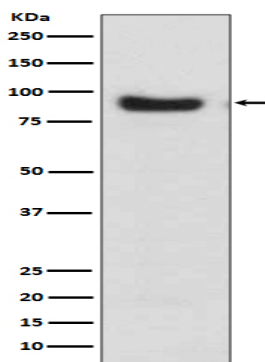
研究领域 (Research Area)

图片 (Image Data)

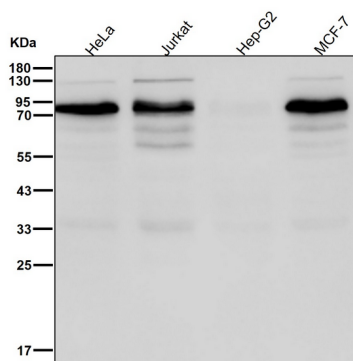


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

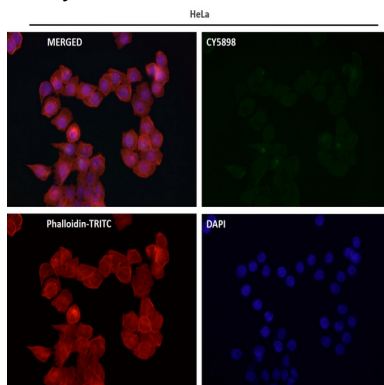
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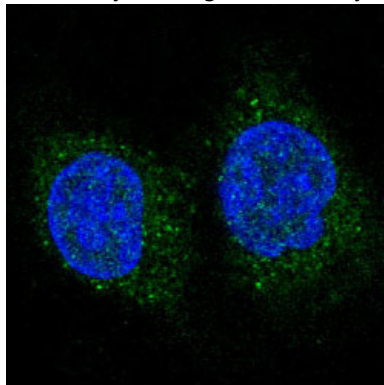
Western blot analysis of FOXO3A expression in MCF-7 cell lysate.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



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Immunofluorescent analysis of Hela cells, using FoxO3a Antibody.

注意事项 (Note)

For research use only .