

Product Name: FOXO3A Rabbit Monoclonal Antibody
Catalog #: AMRe83695



Summary

Production Name	FOXO3A Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal antibody
Host	Rabbit
Application	WB,IHC,ICC,IF
Reactivity	Human

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Purified antibody in PBS with 0.05% sodium azide, 0.05% protective protein and 50% glycerol.
Purification	Affinity Purification

Immunogen

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

Application

Dilution Ratio	WB:1:1000-1:2000,IHC:1:100-1:200;IF:1:50-1:200,ICC:1:50-1:200
Molecular Weight	Calculated MW: 71 kDa ; Observed MW: 90 kDa

Background

Transcriptional activator that recognizes and binds to the DNA sequence 5'-[AG]TAAA[TC]A-3' and regulates different processes, such as apoptosis and autophagy. 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).

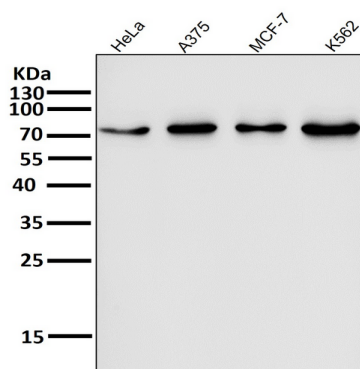
In response to metabolic stress, translocates into the mitochondria where it promotes mtDNA transcription (PubMed:23283301).

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).

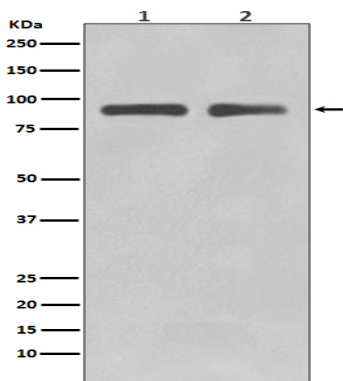
Research Area

Image Data

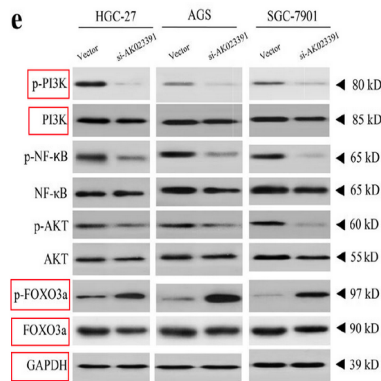


All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

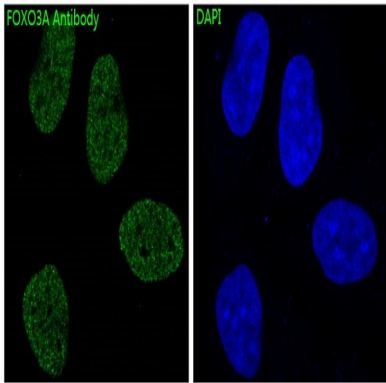
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Western blot analysis of FoxO3a in (1) Jurkat cell lysate; (2) SH-SY5Y cell lysate.

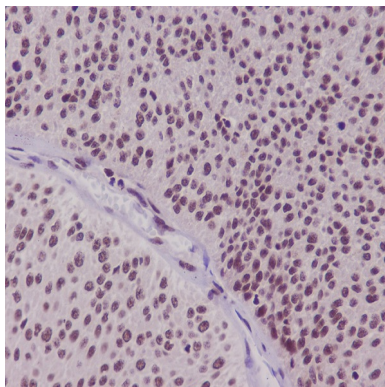


LncRNA AK023391 promotes tumorigenesis and invasion of gastric cancer through activation of the PI3K/Akt signaling pathway. -Journal of Experimental & Clinical Cancer Research



Immunofluorescent analysis of Hela cells, using FoxO3a Antibody .

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Immunohistochemical analysis of paraffin-embedded human bladder carcinoma, using FoxO3a Antibody.

Note

For research use only.