

FOXO3A Rabbit mAb

Catalog No: #48698

Package Size: #48698-1 50ul #48698-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

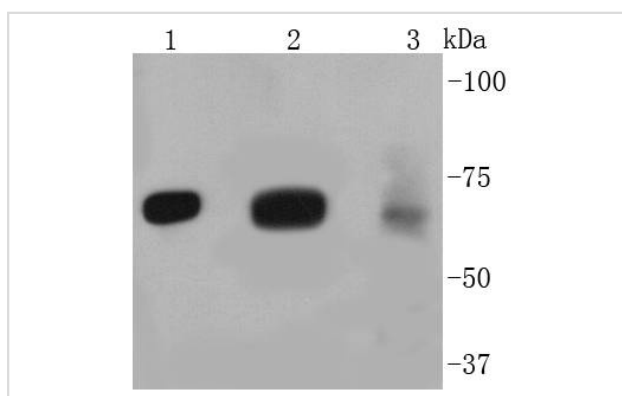
Description

Product Name	FOXO3A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SP0054
Purification	ProA affinity purified
Applications	WB, ICC/IF
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	AF6q21 antibody AF6q21 protein antibody DKFZp781A0677 antibody FKHR2 antibody FKHL 1 antibody FKHL1 antibody FKHL1P2 antibody Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1 antibody Forkhead box O3 antibody Forkhead box O3A antibody Forkhead box protein O3 antibody Forkhead box protein O3A antibody Forkhead Drosophila homolog of in rhabdomyosarcoma like 1 antibody Forkhead homolog (rhabdomyosarcoma) like 1 antibody Forkhead in rhabdomyosarcoma like 1 antibody Forkhead in rhabdomyosarcoma-like 1 antibody FOX O3A antibody FOXO2 antibody foxo3 antibody FOXO3_HUMAN antibody FOXO3A antibody MGC12739 antibody MGC31925 antibody
Accession No.	Swiss-Prot#:O43524
Uniprot	O43524
GeneID	2309;
Calculated MW	71 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

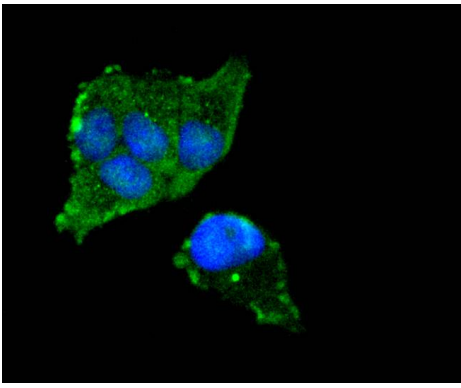
Application Details

WB: 1:1,000-5,000 ICC: 1:50-1:200

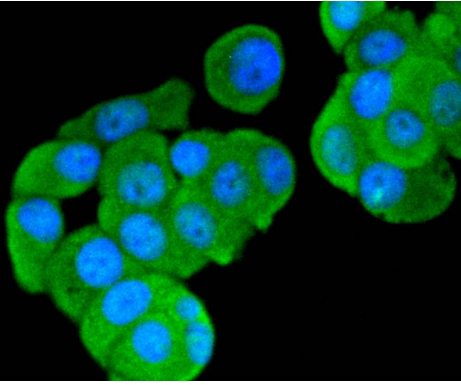
Images



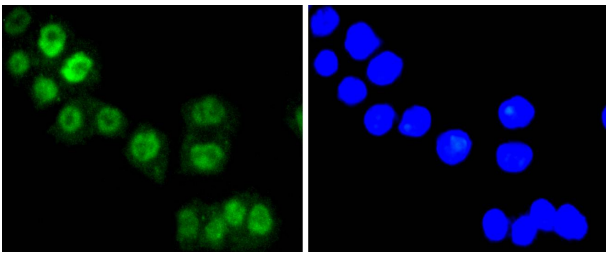
Western blot analysis of FOXO3A on different lysates using anti- FOXO3A antibody at 1/1,000 dilution. Positive control:
Lane 1: NIH/3T3 Lane 2: PC-12 Lane 3: MCF-7



ICC staining FOXO3A in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining FOXO3A in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining FOXO3A in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

FKHRL1 (forkhead in rhabdomyosarcoma-like 1), also known as FOXO3 (forkheadbox O3) or FOXO3A, is a 673 amino acid transcriptional activator that belongs to the FKHR subfamily of forkhead transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHRL1 at Threonine 32 and Serine 253. Phosphorylation by Akt1 negatively regulates FKHRL1 by promoting its export from the nucleus. Phosphorylated FKHRL1 associates with 14-3-3 proteins and this complex is retained in the cytoplasm. Growth factor withdrawal stimulates FKHRL1 dephosphorylation and nuclear translocation, leading to FKHR-induced gene-specific transcriptional activation. Within the nucleus, dephosphorylated FKHRL1 triggers apoptosis by inducing the expression of genes that are critical for cell death.

References

Note: This product is for in vitro research use only