

FOXO3a(Phospho-S253) Rabbit mAb

Catalog No: #13372



Package Size: #13372-1 50ul #13372-2 100ul

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Description

Product Name	FOXO3a(Phospho-S253) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	ST49-01
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser253 of human FOXO3a.
Conjugates	Unconjugated
Other Names	AF6q21 antibody AF6q21 protein antibody DKFZp781A0677 antibody FKHR2 antibody FKHL1 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
Calculated MW	71 kDa
SDS-PAGE MW	90 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

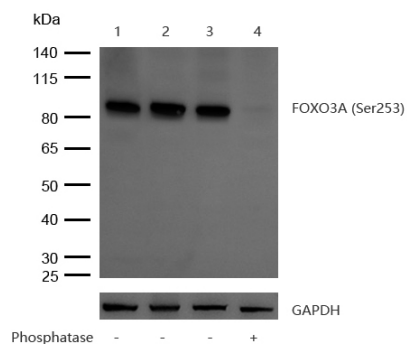
Application Details

WB: 1:500-1:2000

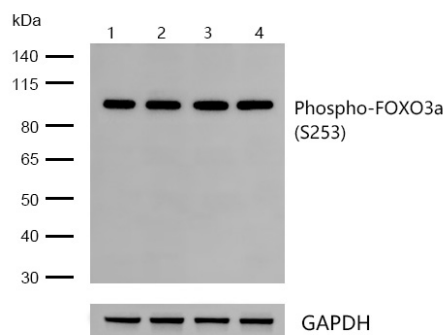
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : FOXO3A (Phospho-Ser253) Rabbit mAb at 1/1k dilution
 Lane 1 : K562 whole cell lysates
 Lane 2 : C6 whole cell lysates
 Lane 3 : 3T3 whole cell lysates
 Lane 4 : 3T3 treated with Lambda Protein Phosphatase for 30min whole cell lysates/proteins at 20 µg per lane.
 Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
 Predicted band size: 71 kDa Observed band size: 90 kDa
 Exposure time: 6 seconds



All lanes : FOXO3a(Phospho-S253) Rabbit mAb at 1/1k dilution

Lane 1 : HeLa whole cell lysates
 Lane 2 : PC12 whole cell lysates
 Lane 3 : MCF7 whole cell lysates
 Lane 4 : Mouse liver lysates

Lysates/proteins at 20 µg per lane.

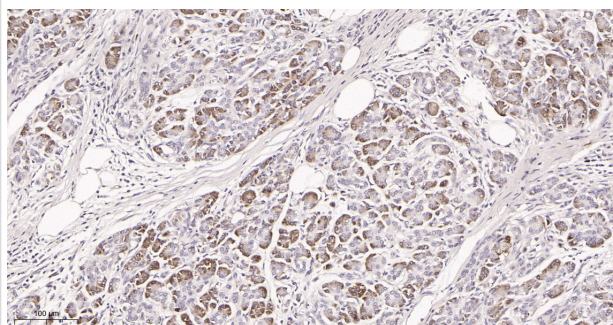
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

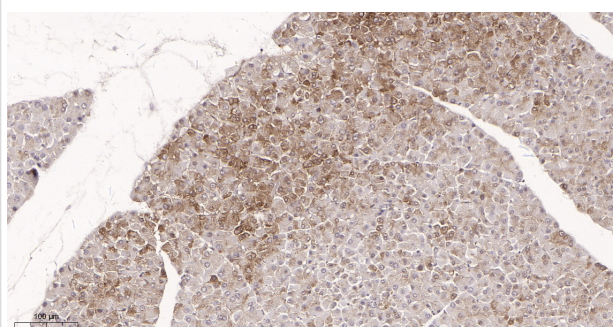
Predicted band size: 71 kDa

Observed band size: 90 kDa

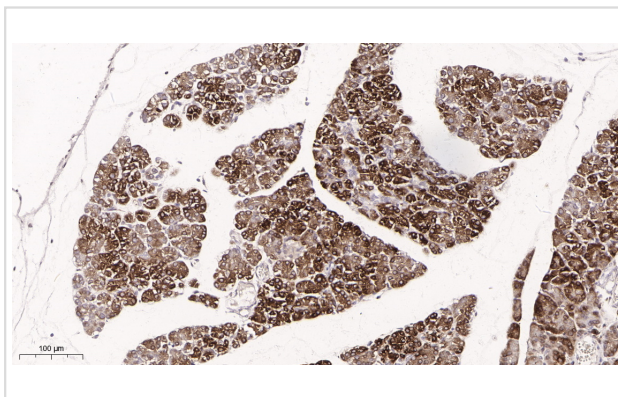
Exposure time: 12 seconds



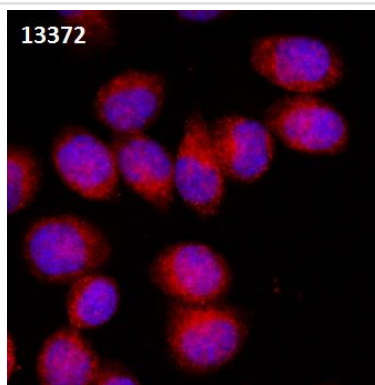
Formalin-fixed;paraffin-embedded human pancreas tissue stained for FOXO3a(Phospho-S253) using 13372 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded mouse pancreas tissue stained for FOXO3a(Phospho-S253) using 13372 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded rat pancreas tissue stained for FOXO3a(Phospho-S253) using 13372 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence
FOXO3a(Phospho-S253) antibody (13372)
ICC/IF staining of FOXO3a(Phospho-S253) in HeLa cells.
Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13372 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

FKHRL1 (for forkhead in rhabdomyosarcoma) is a member of 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

1. Guillen-Ahlers H et al. Fas/CD95 Deficiency in Apc Mice Increases Intestinal Tumor Burden. PLoS One 5:e9070 (2010).
2. Mojsilovic-Petrovic J et al. FOXO3a is broadly neuroprotective in vitro and in vivo against insults implicated in motor neuron diseases. J Neurosci 29:8236-47 (2009).

Published Papers

et al., Overexpression of astrocyte-elevated gene-1 is associated with ovarian cancer development and progression.In Mol Med Rep on 2015 Apr by Bo Zhou , Jue Yang et al..PMID:25483832, , (2015)

[PMID:25483832](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.