FOXO3a(Phospho-S253) Rabbit mAb

Catalog No: #13372

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



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

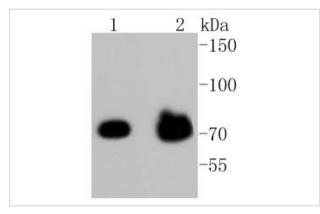
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Product Name	FOXO3a(Phospho-S253) Rabbit mAb	
Host Species	Recombinant Rabbit	
Clonality	Monoclonal	
Clone No.	ST49-01	
Purification	ProA affinity purified	
Applications	WB;ICC/IF;IHC	
Species Reactivity	Human;Mouse;Rat	
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser253 of human FOXO3a.	
Conjugates	Unconjugated	
Other Names	AF6q21 antibody AF6q21 protein antibody DKFZp781A0677 antibody FKHR2 antibody FKHRL 1 antibody FKHRL1 antibody FKHRL1 antibody FKHRL1 antibody Forkhead (Drosophila) homolog (rhabdomyosarcoma) like 1 antibody Forkhead box O3 antibody Forkhead box O3A 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

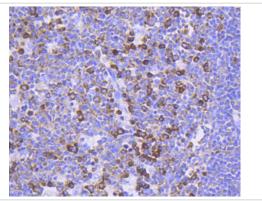
WB: 1:500-1:2000 ICC/IF: 1:50-1:200 IHC: 1:50-1:200

Images

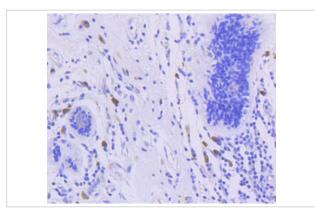


Western blot analysis of Phospho-FOXO3a(S253) on different lysates using anti-Phospho-FOXO3a(S253) antibody at 1/1,000 dilution. Positive control:

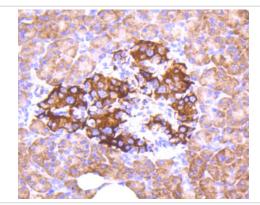
Lane 1: Hela Lane 2: PC12



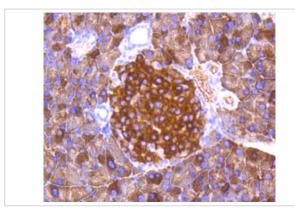
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Phospho-FOXO3a(S253) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-FOXO3a(S253) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Phospho-FOXO3a(S253) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-Phospho-FOXO3a(S253) antibody. Counter stained with hematoxylin.

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, dephospho-rylated 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

el at., 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.