

## FOXO1A Rabbit mAb

Catalog No: #48816

Package Size: #48816-1 50ul #48816-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

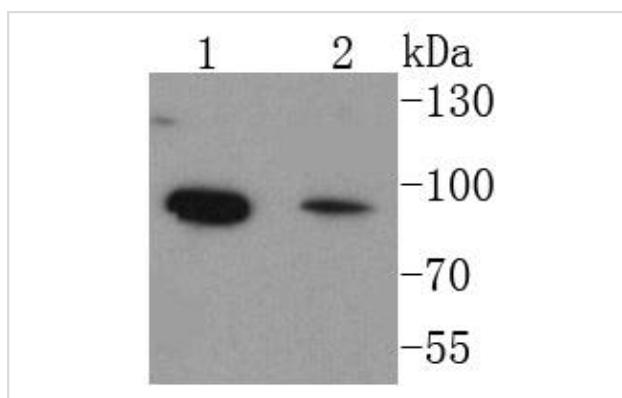
## Description

Product Name	FOXO1A Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SU33-01
Purification	ProA affinity purified
Applications	WB, ICC, IHC
Species Reactivity	Hu, Ms, Rt, zebrafish
Immunogen Description	recombinant protein
Other Names	FKH 1 antibody FKH1 antibody FKHR antibody Forkhead (Drosophila) homolog 1 (rhabdomyosarcoma) antibody Forkhead box O1 antibody Forkhead box protein O1 antibody Forkhead box protein O1A antibody Forkhead in rhabdomyosarcoma antibody Forkhead, Drosophila, homolog of, in rhabdomyosarcoma antibody FoxO transcription factor antibody foxo1 antibody FOXO1_HUMAN antibody FOXO1A antibody OTTHUMP00000018301 antibody
Accession No.	Swiss-Prot#:Q12778
Uniprot	Q12778
GeneID	2308;
Calculated MW	80 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

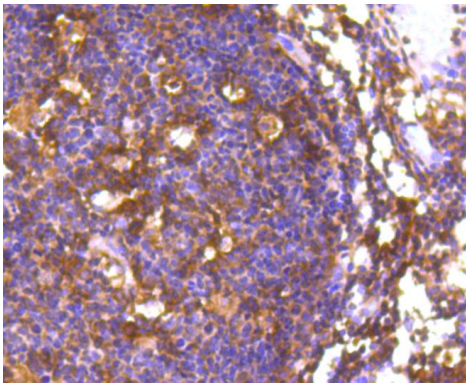
## Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200

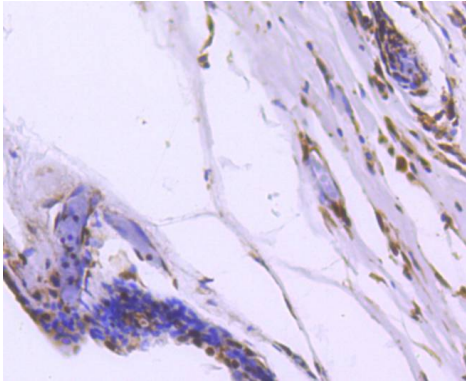
## Images



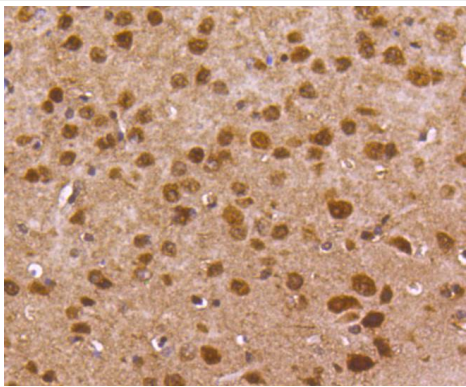
Western blot analysis of FOXO1A on different lysates using anti-FOXO1A antibody at 1/1,000 dilution. Positive control:  
Lane 1: Hela      Lane 2: NIH/3T3



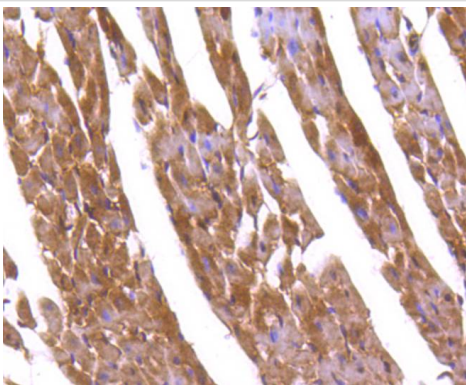
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.



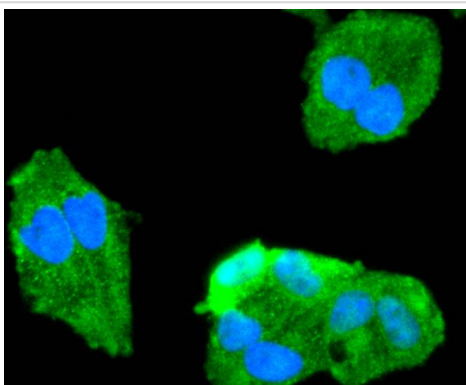
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.



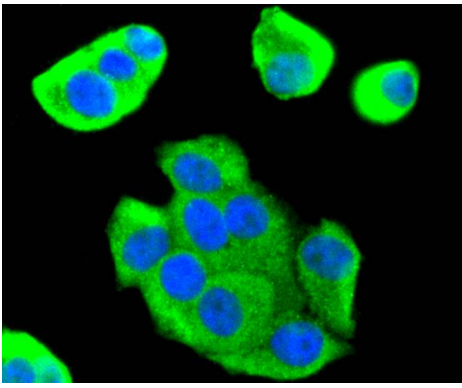
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.



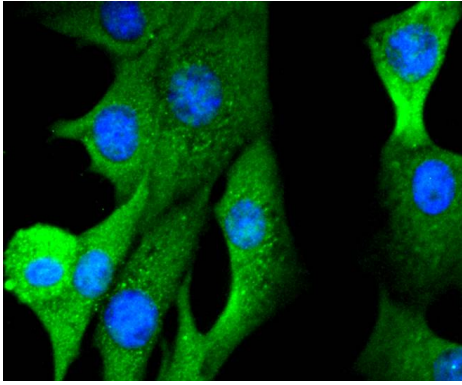
Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-FOXO1A antibody. Counter stained with hematoxylin.



ICC staining FOXO1A 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 FOXO1A 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 FOXO1A in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

FKHR (for forkhead in rhabdomyosarcoma) and FKHL1 are members of the forkhead family of transcription factors. Transcriptional activation of FKHR proteins is regulated by the serine/threonine kinase Akt1, which phosphorylates FKHL1 and results in FKHL1 associating with 14-3-3 proteins and being retained in the cytoplasm. Induction of apoptosis or withdrawal of growth factors stimulates dephosphorylation and nuclear translocation of FKHR proteins, leading to FKHR-induced gene-specific transcriptional activation. FKHR, also designated forkhead box protein O1A (FOXO1), is a ubiquitously expressed protein that shuttles between the cytoplasm and nucleus. Genetic mutations in FKHR genes, including the t(2;13) and t(1;3) translocations, are commonly found in alveolar rhabdomyosarcomas. These translocations result in the fusion of the amino terminus of Pax-3 or Pax-7, including the paired box and homeodomain DNA-binding domains, with the carboxy-terminus of FKHR, which contains a transcriptional activation domain. The Pax-3/FKHR fusion protein appears to function as an oncogenic transcription factor that enhances the activation of normal Pax-3 target genes.

## References

Note: This product is for in vitro research use only