

FOXA1 Rabbit mAb

Catalog No: #49403



Package Size: #49403-1 50ul #49403-2 100ul

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

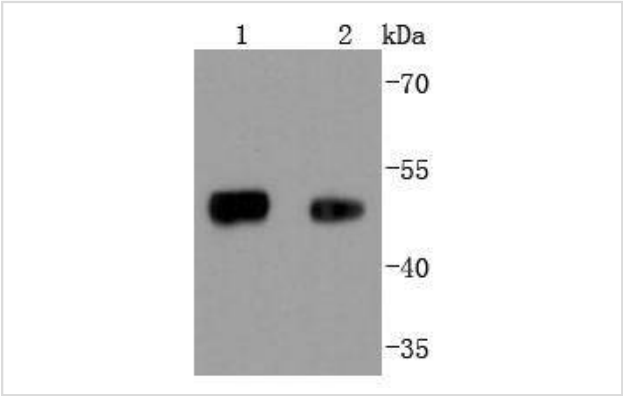
Description

Product Name	FOXA1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JF10-02
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	forkhead box A1 antibody Forkhead box protein A1 antibody FOX A1 antibody FOXA1 antibody FOXA1_HUMAN antibody hepatocyte nuclear factor 3 alpha antibody Hepatocyte nuclear factor 3-alpha antibody HNF 3A antibody HNF-3-alpha antibody HNF-3A antibody HNF3A antibody MGC33105 antibody TCF 3A antibody TCF-3A antibody TCF3A antibody Transcription factor 3A antibody
Accession No.	Swiss-Prot#:P55317
Calculated MW	49 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

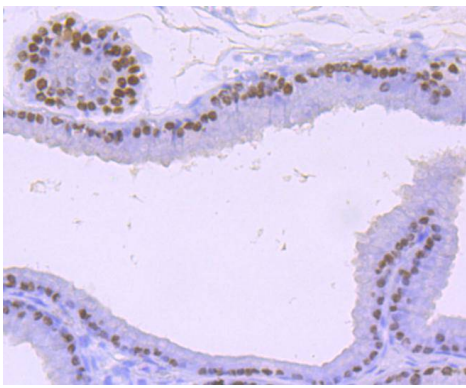
Application Details

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

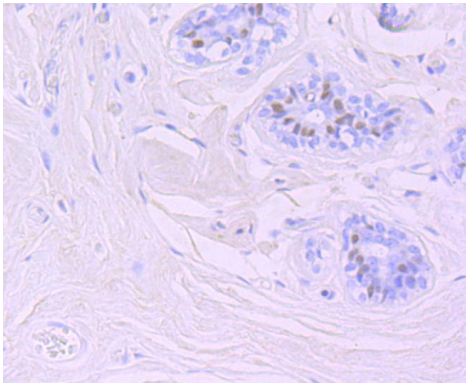
Images



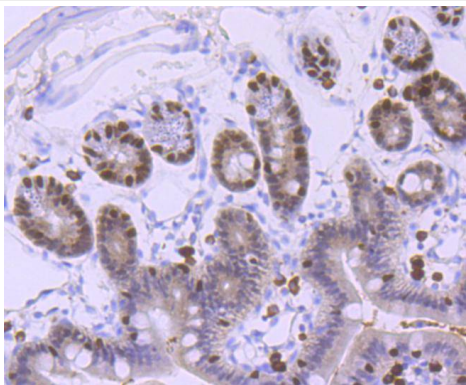
Western blot analysis of FOXA1 on different lysates using anti-FOXA1 antibody at 1/1,000 dilution. Positive control:
Lane 1: 293 Lane 2: Mouse lung



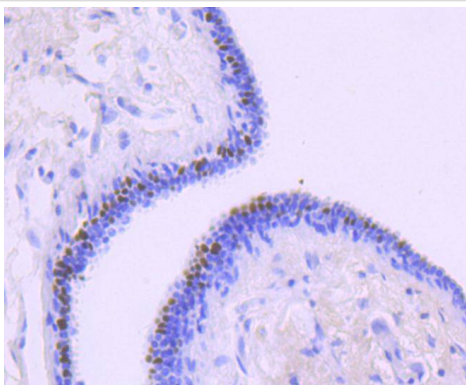
Immunohistochemical analysis of paraffin-embedded rat prostate tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.



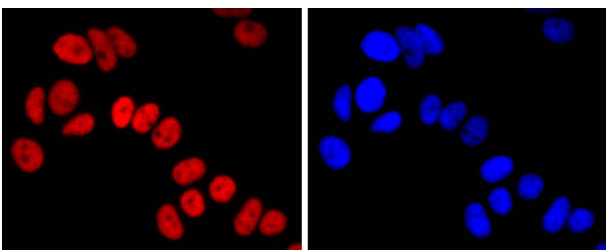
Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.



ICC staining FOXA1 in MCF-7 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

HNF-1 (α and β), HNF-3 (α , β and γ), HNF-4 (α and γ), and HNF-6 compose, in part, a homeoprotein family designated the hepatocyte nuclear factor family. The various HNF-1 isoforms regulate transcription of genes in the liver as well as in other tissues such as kidney, small intestine and thymus. HNF-3 α , HNF-3 β and HNF-3 γ regulate the transcription of numerous hepatocyte genes in adult liver. HNF-3 α and HNF-3 β have also been shown to be involved in gastrulation events such as body axis formation. HNF-4 α and HNF-4 γ have been shown to be important for early embryo development. HNF-4 α is expressed in liver, kidney, pancreas, small intestine, testis and colon; HNF-4 γ is expressed in each of these tissues except liver. HNF-6 has been shown to bind to the promoter of HNF-3 β , which indicates a potential role of HNF-6 in gut endoderm epithelial cell differentiation. Evidence suggests that HNF-6 may also be a transcriptional activator for at least 22 other hepatocyte-enriched genes, including cytochrome P450 2C13 and α -1 antitrypsin.

References

1. Yang YA et al. FOXA1 potentiates lineage-specific enhancer activation through modulating TET1 expression and function. *Nucleic Acids Res* 44:8153-64 (2016).
2. Guaraldo M et al. Characterization of human mitochondrial ferritin promoter: identification of transcription factors and evidences of epigenetic control. *Sci Rep* 6:33432 (2016).

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