

## Anti-FOXA1 Antibody (5M374)

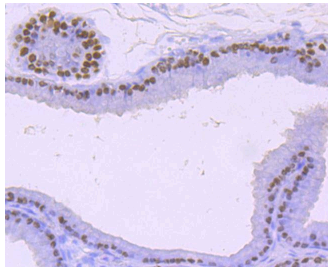
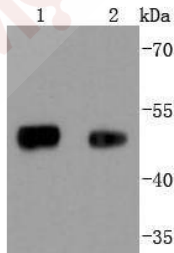
### Product Details

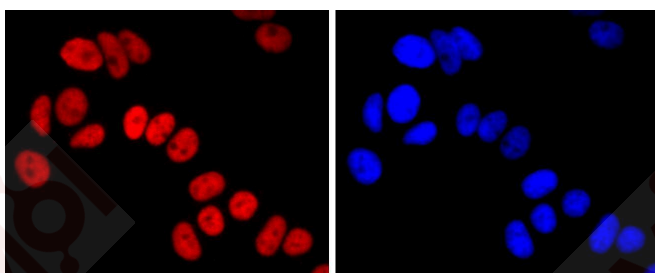
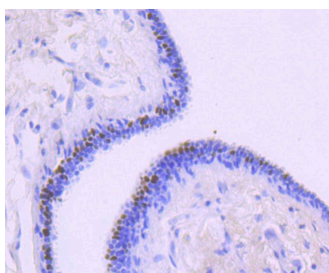
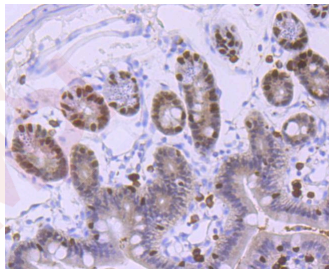
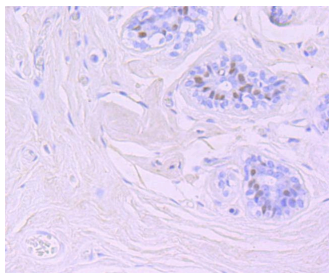
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 49 kDa.
Clone:	5M374
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded rat prostate tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-FOXA1 antibody. Counter stained with hematoxylin.
6. 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.





Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P55317

### Research Background

HNF-1 ( $\alpha$  and  $\beta$ ), HNF-3 ( $\alpha$ ,  $\beta$  and  $\gamma$ ), HNF-4 ( $\alpha$  and  $\gamma$ ), 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 $\alpha$ , HNF-3 $\beta$  and HNF-3 $\gamma$  regulate the transcription of numerous hepatocyte genes in adult liver. HNF-3 $\alpha$  and HNF-3 $\beta$  have also been shown to be involved in gastrulation events such as body axis formation. HNF-4 $\alpha$  and HNF-4 $\gamma$  have been shown to be important for early embryo development. HNF-4 $\alpha$  is expressed in liver, kidney, pancreas, small intestine, testis and colon; HNF-4 $\gamma$  is

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expressed in each of these tissues except liver. HNF-6 has been shown to bind to the promoter of HNF-3 $\beta$ , 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  $\alpha$ -1 antitrypsin.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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