

For Research Use Only

# FOXA2 Polyclonal antibody

Catalog Number: 22474-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

22474-1-AP

### Concentration:

550 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18221

### GenBank Accession Number:

BC011780

### GeneID (NCBI):

3170

### UNIPROT ID:

Q9Y261

### Full Name:

forkhead box A2

### Calculated MW:

457 aa, 48 kDa

### Observed MW:

55-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:2000-1:8000

IF-P 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IP, ELISA

### Cited Applications:

WB, IHC, IF, CoIP, ChIP

### Species Specificity:

human

### Cited Species:

human, mouse

### Positive Controls:

WB : HT-29 cells, HepG2 cells, A549 cells, MDA-MB-231 cells

IP : HepG2 cells,

IHC : human colon cancer tissue,

IF-P : rat stomach tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

FOXA2 also named as HNF 3 beta or TCF3B is a 457 amino acid protein, which contains one fork-head DNA-binding domains. FOXA2 can Shuttle between the nucleus and cytoplasm in a CRM1-dependent manner. Phosphorylation on FOXA2 Thr-156 abolishes binding to target promoters and subsequent transcription activation upon INS stimulation. FOXA2 as a transcription factor involves in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. The molecular weight of FOXA2 is 48kDa, but the phosphorylated FOXA2 may be a 55-65kDa protein.

## Notable Publications

Author	Pubmed ID	Journal	Application
Lin Yang	31754329	Int J Biol Sci	WB
Yan Huang	36334352	Biomaterials	WB,IF
Sang Luo	34926672	Ann Transl Med	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

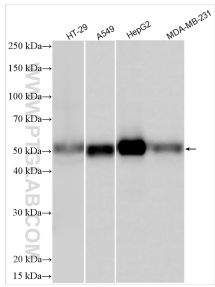
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

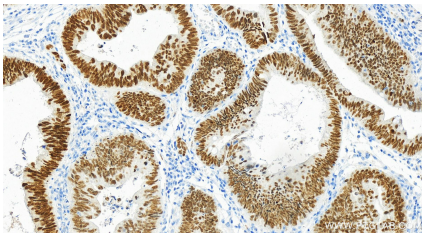
W: [ptgcn.com](http://ptgcn.com)

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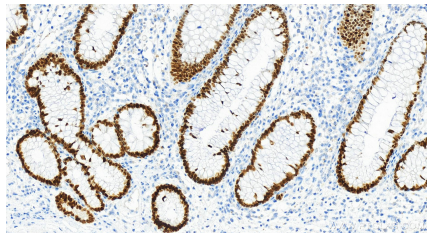
Selected Validation Data



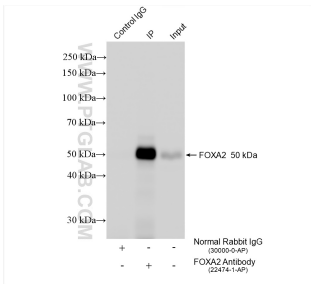
Various lysates were subjected to SDS PAGE followed by western blot with 22474-1-AP (FOXA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



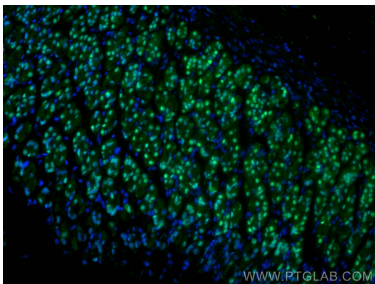
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22474-1-AP (FOXA2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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IP result of anti-FOXA2 (IP:22474-1-AP, 4ug; Detection:22474-1-AP 1:500) with HepG2 cells lysate 1320 ug.



Immunofluorescent analysis of (4% PFA) fixed rat stomach tissue using FOXA2 antibody (22474-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).