

For Research Use Only

FOXA2 Polyclonal antibody

Catalog Number: 22474-1-AP

Featured Product

24 Publications



Basic Information

Catalog Number:

22474-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

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

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

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,

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

*** 20ul sizes contain 0.1% BSA

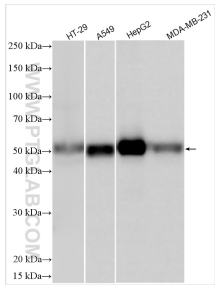
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

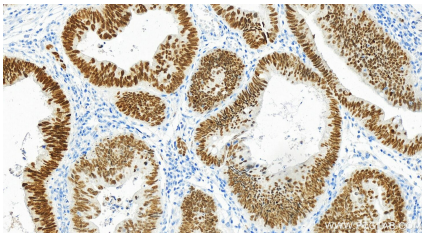
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



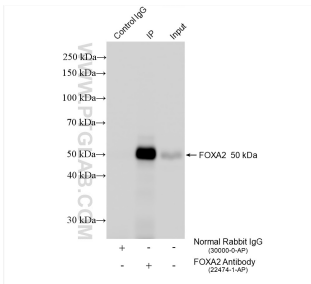
Various lysates were subjected to SDS PAGE followed by western blot with 22474-1-AP (FOXA2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



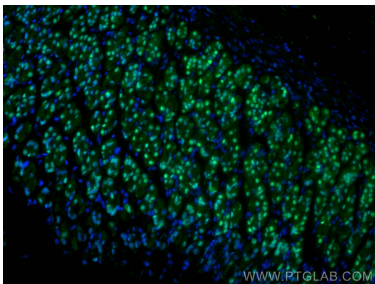
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 22474-1-AP (FOXA2 antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).