

For Research Use Only

FOXA2 Polyclonal antibody

Catalog Number: 22474-1-AP **5 Publications**



Basic Information

Catalog Number:

22474-1-AP

Size:

150UL, Concentration: 200 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18221

GenBank Accession Number:

BC011780

GeneID (NCBI):

3170

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 µg for IP and 1:200-1:1000 for WB

IHC 1:20-1:200

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, IP, WB, ELISA

Cited Applications:

ChIP, IF, WB

Species Specificity:

human

Cited Species:

human

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: A549 cells, HepG2 cells, PC-13 cells

IP: HepG2 cells,

IHC: human pancreas tissue, human liver cancer tissue

IF: HepG2 cells,

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
Bing Chen	30944629	Oncol Lett	WB
Minjing Ke	32071291	Cell Death Dis	IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

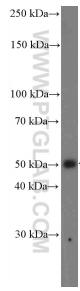
For technical support and original validation data for this product please contact:

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

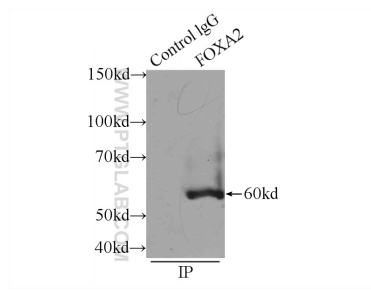
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

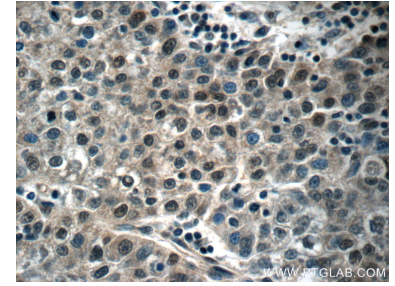
Selected Validation Data



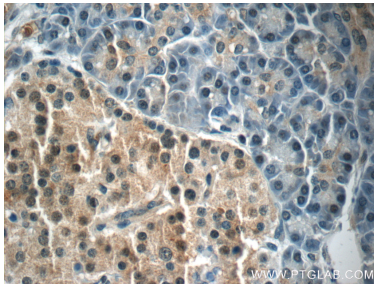
A549 cells were subjected to SDS PAGE followed by western blot with 22474-1-AP (FOXA2 Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



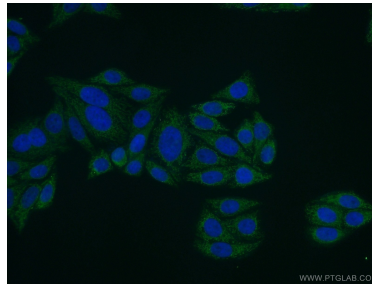
IP Result of anti-FOXA2 (IP:22474-1-AP, 3ug; Detection:22474-1-AP 1:300) with HepG2 cells lysate 1920ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 22474-1-AP (FOXA2 Antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 22474-1-AP (FOXA2 Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20 Ethanol) fixed HepG2 cells using 22474-1-AP (FOXA2 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).