

For Research Use Only

FOXM1 Polyclonal antibody

Catalog Number: 13147-1-AP

Featured Product

71 Publications



Basic Information

Catalog Number:

13147-1-AP

Size:

150ul, Concentration: 600 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3729

GenBank Accession Number:

BC006192

GeneID (NCBI):

2305

UNIPROT ID:

Q08050

Full Name:

forkhead box M1

Calculated MW:

83 kDa

Observed MW:

84-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:200-1:800

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IP, IF, RIP, IHC, ChIP

Species Specificity:

human, mouse

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, HeLa cells, human testis tissue, mouse thymus tissue, mouse colon tissue, mouse testis tissue, HEK-293 cells, mouse spleen tissue, L02 cells, MCF-7 cells, A431 cells

IP: L02 cells,

IHC: human pancreas cancer tissue, human colon tissue

Background Information

Forkhead box M1 (FOXM1), also named as HNF-3, HFH-11 or Trident, belongs to a superfamily of Fox transcription factors. FOXM1 is strongly associated with cell proliferation, it plays a important role in cell cycle progression by regulating both G1/S and G2/M phases, it is also involved in DNA damage repair, angiogenesis, apoptosis and tissue regeneration. Recently, crucial roles of this transcription factor were found in the development and progression of many cancers including colorectal, lung, prostate, liver and breast cancer. FOXM1 levels are significantly higher and associated with tumor grade in most human tumors, rendering it a potential target of cancer diagnosis and therapies. Catalog#13147-1-AP is a rabbit polyclonal antibody raised against C-terminal of human FOXM1. And this antibody can recognize three kinds of FOXM1, FOXM1-pp (~95-110kDa), FOXM1-B (isoform2, ~83kDa) and FOXM1A (isoform4, ~90kDa). Sometimes a molecular weight of about 65 kDa can also be observed, which may be a degradation form of FOXM1 (PMID: 26547933).

Notable Publications

Author	Pubmed ID	Journal	Application
Junqi Fu	36133745	Mediators Inflamm	WB
Mingjie Zhang	26342429	Eur J Pharmacol	WB
Zhiwang Song	31598398	Am J Cancer Res	WB

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

*** 20ul sizes contain 0.1% BSA

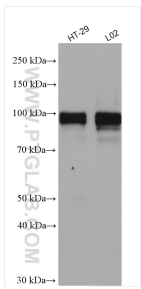
For technical support and original validation data for this product please contact:

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

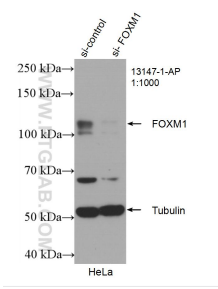
E: proteintech@ptglab.com
W: ptglab.com

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

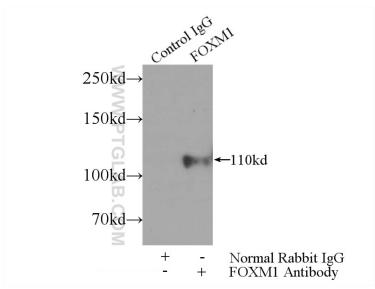
Selected Validation Data



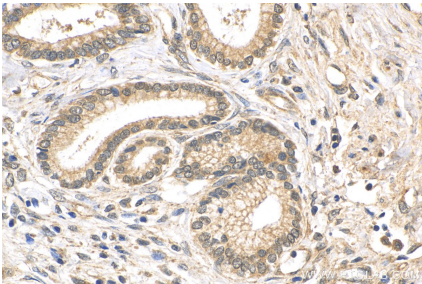
Various lysates were subjected to SDS PAGE followed by western blot with 13147-1-AP (FOXM1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



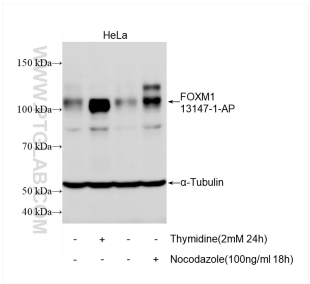
WB result of FOXM1 antibody (13147-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-FOXM1 transfected HeLa cells.



IP result of anti-FOXM1 (IP:13147-1-AP, 5ug; Detection:13147-1-AP 1:700) with L02 cells lysate 1560ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 13147-1-AP (FOXM1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Non-treated HeLa and thymidine or nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 13147-1-AP (FOXM1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin antibody as loading control.