

For Research Use Only

# PBXIP1 Polyclonal antibody

Catalog Number: 12102-1-AP

Featured Product

14 Publications



## Basic Information

### Catalog Number:

12102-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 400 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2746

### GenBank Accession Number:

BC016852

### GeneID (NCBI):

57326

### UNIPROT ID:

Q96AQ6

### Full Name:

pre-B-cell leukemia homeobox interacting protein 1

### Calculated MW:

731 aa, 81 kDa

### Observed MW:

95-100 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 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, 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: BxPC-3 cells, A549 cells, HeLa cells

IP: HeLa cells,

IHC: human lung cancer tissue,

IF/ICC: HepG2 cells, HeLa cells

## Background Information

PBXIP1 (pre-B-cell leukemia transcription factor-interacting protein 1), also known as HPIP (hematopoietic PBX-interacting protein), is a regulator of pre-B-cell leukemia transcription factors (BPXs) function. PBXIP1 is a nucleocytoplasmic shuttling protein, mainly localized in the cytosol and in small amounts in the nucleus (PMID: 10825160). It interacts with PBX1 as well as PBX2 and PBX3. PBXIP1 inhibits the ability of PBX-HOX heterodimers to bind to target sequences and strongly inhibits the transactivation activity of E2A-PBX. PBXIP1 is also reported to be a microtubule-binding protein, which regulates estrogen receptor functions and plays a role in cancer development and progression (PMID: 17043237; 18302941; 23321675). The predicted PBXIP1 protein has a calculated molecular mass of 81 kDa. This polyclonal antibody raised against 1-300aa of human PBXIP1 recognizes endogenous PBXIP1 with an apparent molecular weight of 95-100 kDa. The slow migration of PBXIP1 possibly results from either post-translational modifications or intrinsic SDS-resistant folding of the protein (PMID: 10825160; 17043237).

## Notable Publications

Author	Pubmed ID	Journal	Application
Bing Chen	27748944	Oncol Rep	
H Mai	27694835	Oncogenesis	WB, IHC, IF
Shun-Chang Wang	26463629	Biomed Pharmacother	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

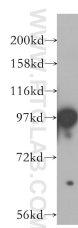
For technical support and original validation data for this product please contact:

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

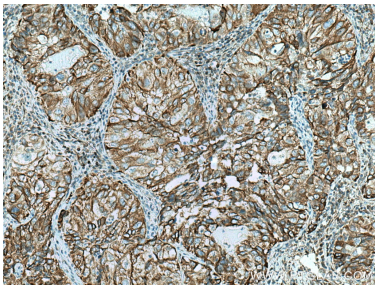
E: proteintech@ptglab.com  
W: ptglab.com

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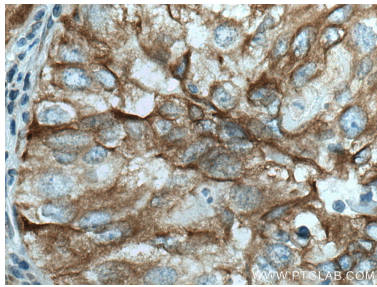
Selected Validation Data



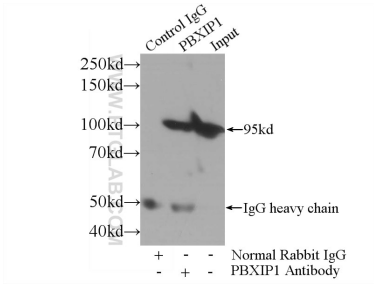
BxPC-3 cells were subjected to SDS PAGE followed by western blot with 12102-1-AP (PBXIP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



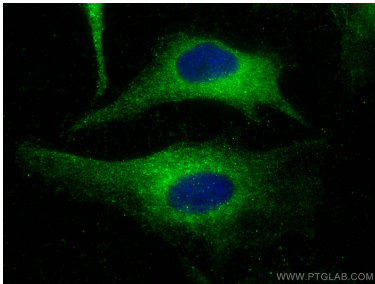
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12102-1-AP (PBXIP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



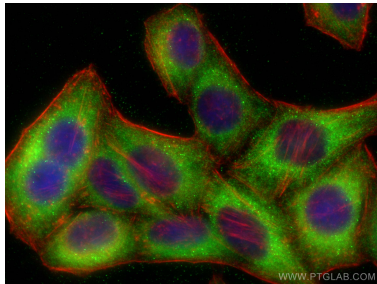
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12102-1-AP (PBXIP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PBXIP1 (IP:12102-1-AP, 3ug; Detection:12102-1-AP 1:800) with HeLa cells lysate 3000ug.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using PBXIP1 antibody (12102-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PBXIP1 antibody (12102-1-AP) at dilution of 1:400 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).