For Research Use Only

PBXIP1 Polyclonal antibody

Catalog Number:12102-1-AP Featured Product 12 Publications

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Basic Information

Catalog Number:
12102-1-AP

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG2746

GenBank Accession Number:
BC016852

GeneID (NCBI):
57326

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 IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:10-1:100

Applications

Tested Applications:
IF, IHC, IP, WB,ELISA

Cited Applications:
chIP, IF, IHC, WB

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 : 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 nucleo-cytoplasmic 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
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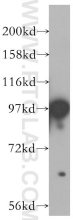
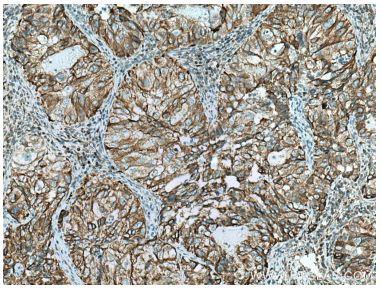
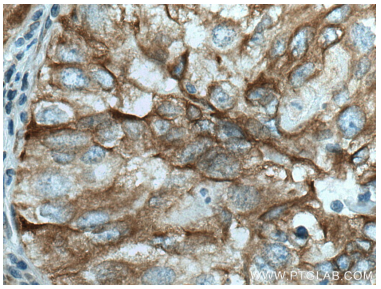
Selected Validation Data



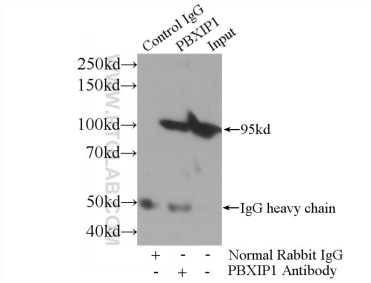
BxPC-3 cells were subjected to SDS PAGE followed by western blot with 12102-1-AP (PBXIP1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



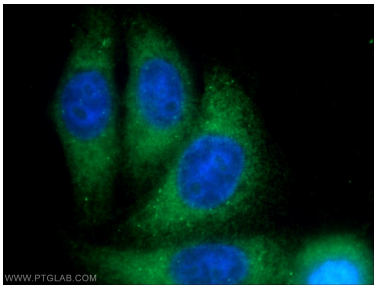
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12102-1-AP (PBXIP1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 HepG2 cells using 12102-1-AP (PBXIP1 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).