

For Research Use Only

PBX3 Polyclonal antibody

Catalog Number: 12571-1-AP

Featured Product

18 Publications



Basic Information

Catalog Number:

12571-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3239

GenBank Accession Number:

BC016977

GeneID (NCBI):

5090

UNIPROT ID:

P40426

Full Name:

pre-B-cell leukemia homeobox 3

Calculated MW:

434 aa, 47 kDa

Observed MW:

47-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

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

IHC: 1:20-1:200

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, ChIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, chicken

Positive Controls:

WB: human lung tissue,

IP: HL-60 cells,

IHC: human lung cancer tissue,

IF/ICC: HeLa cells,

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

Background Information

PBX3 is a homeodomain-containing transcription factor of the pre-B cell leukemia (PBX) family, members of which have extensive roles in early development and some adult processes. It plays crucial roles in embryonic development, organogenesis, and cell differentiation by regulating the expression of downstream target genes. Beyond its physiological functions, PBX3 is increasingly recognized for its significant involvement in oncogenesis. It is frequently overexpressed in various malignancies, including leukemias and solid tumors, where it promotes cell proliferation, inhibits apoptosis, enhances invasion and metastasis, and contributes to chemotherapy resistance.

Notable Publications

Author	Pubmed ID	Journal	Application
Jingjing Zhang	29066842	Sci Rep	IF
Shuanhu Wang	27900025	Oncol Lett	WB
Dandan Wang	35414770	Int J Biol Sci	WB, IHC

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

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

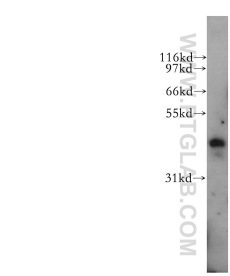
T: 4006900926

E: Proteintech-CN@ptglab.com

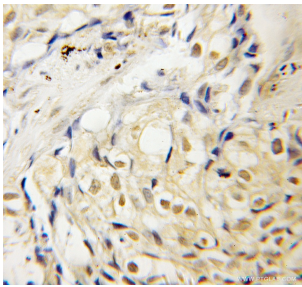
W: ptgcn.com

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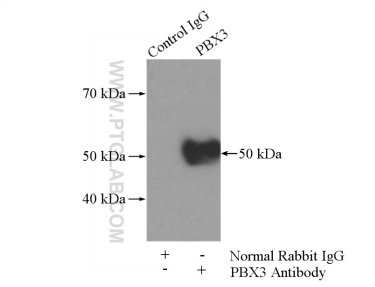
Selected Validation Data



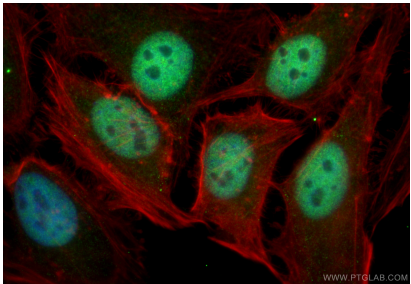
human lung tissue were subjected to SDS PAGE followed by western blot with 12571-1-AP (PBX3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 12571-1-AP (PBX3 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-PBX3 (IP:12571-1-AP, 4ug; Detection:12571-1-AP 1:500) with HL-60 cells lysate 3040ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using PBX3 antibody (12571-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).