

For Research Use Only

# ZBTB7B Polyclonal antibody

Catalog Number: 11341-1-AP

4 Publications



## Basic Information

### Catalog Number:

11341-1-AP

### Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1888

### GenBank Accession Number:

BC012070

### GeneID (NCBI):

51043

### Full Name:

zinc finger and BTB domain containing 7B

### Calculated MW:

539 aa, 58 kDa

### Observed MW:

60-65 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

IF/ICC 1:800-1:3200

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, bovine, hamster

### Positive Controls:

WB: HeLa cells, HepG2 cells

IP: HeLa cells,

IF/ICC: HeLa cells,

## Background Information

ZBTB7B belongs to a large family of transcription factors, generally acting as repressors, characterized by a carboxy-terminal DNA binding domain made of multiple zinc fingers (four in Thpok) and an amino-terminal BTB-POZ domain that mediates homo- (and possibly hetero-) dimerization [PMID: 17084908]. Zbtb7b is up-regulated by MHC-II-restricted thymocytes during their CD4 differentiation and is a major determinant of CD4 lineage choice. Two properties of ZBTB7B deserve attention. First, although Thpok is expressed in a wide variety of cells, its expression in the thymus is highly lineage-specific: CD4 SP thymocytes (and all CD4 T cells) express Thpok, whereas DP and CD8 SP thymocytes do not. Second, both loss- and gain-of-function experiments indicate that Thpok affects lineage choice but not positive selection [PMID: 15729333, 10550051].

## Notable Publications

Author	Pubmed ID	Journal	Application
Jian Sun	34700042	Acta Biomater	WB
Hao-Ming Xu	35761286	J Transl Med	WB, IHC
Jiaxin Wang	38154091	J Agric Food Chem	WB, IP

## 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

\*\*\* 20ul sizes contain 0.1% BSA

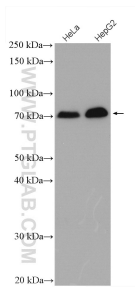
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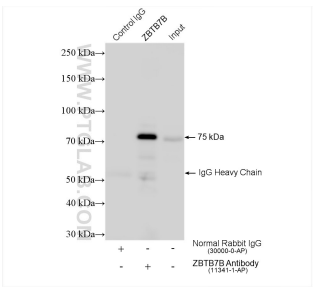
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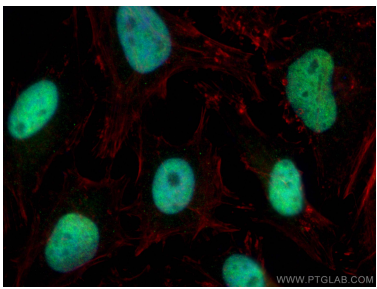
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11341-1-AP (ZBTB7B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-ZBTB7B (IP:11341-1-AP, 4ug; Detection:11341-1-AP 1:3000) with HeLa cells lysate 1320 ug.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ZBTB7B antibody (11341-1-AP) at dilution of 1:1600 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).