

For Research Use Only

# ZBTB7B Polyclonal antibody

Catalog Number: 11341-1-AP **3 Publications**



## Basic Information

**Catalog Number:**

11341-1-AP

**Size:**

800 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IF 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, IP, WB, ELISA

**Cited Applications:**

IHC, IP, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, hamster, bovine

**Positive Controls:**

WB : HeLa cells, HepG2 cells

IP : HeLa cells,

IF : HeLa cells, MCF-7 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

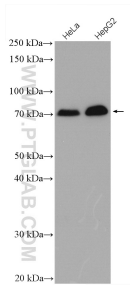
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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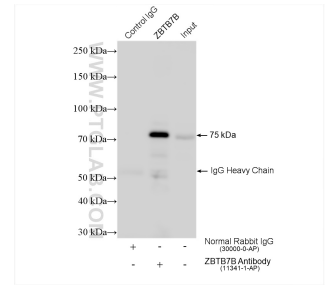
## Selected Validation Data



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.



Immunofluorescent analysis of HeLa cells, using ZBTB7B antibody 11341-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



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