

For Research Use Only

ZBTB7B Polyclonal antibody

Catalog Number: 11341-1-AP

3 Publications



Basic Information

Catalog Number: 11341-1-AP	GenBank Accession Number: BC012070	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 800 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51043	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IF 1:10-1:100
Source: Rabbit	Full Name: zinc finger and BTB domain containing 7B	
Isotype: IgG	Calculated MW: 539 aa, 58 kDa	
Immunogen Catalog Number: AG1888	Observed MW: 60-65 kDa	

Applications

Tested Applications: IF, IP, WB, ELISA	Positive Controls:
Cited Applications: IHC, IP, WB	WB: HeLa cells, HepG2 cells
Species Specificity: human, mouse, rat	IP: mouse skin tissue,
Cited Species: human, hamster, bovine	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

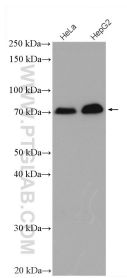
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

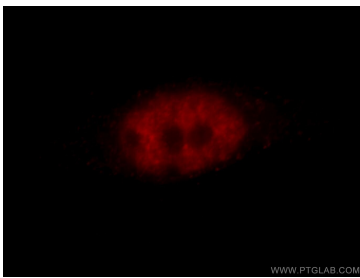
For technical support and original validation data for this product please contact:
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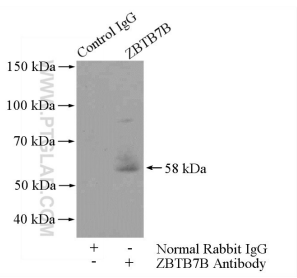
Selected Validation Data



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 1:300) with mouse skin tissue lysate 3200ug.