

For Research Use Only

# PSTPIP1 Polyclonal antibody

Catalog Number: 11951-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 11951-1-AP	<b>GenBank Accession Number:</b> BC008602	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 200 µg/ml	<b>GeneID (NCBI):</b> 9051	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43586	
<b>Isotype:</b> IgG	<b>Full Name:</b> proline-serine-threonine phosphatase interacting protein 1	
<b>Immunogen Catalog Number:</b> AG2551	<b>Calculated MW:</b> 416 aa, 48 kDa	
	<b>Observed MW:</b> 45-48 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IHC	WB : mouse thymus tissue, IHC : human brain tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> 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**

## Background Information

PSTPIP1 (proline-serine-threonine phosphatase interacting protein 1), also known as CD2BP1, is a cytoskeleton-associated adaptor protein that links PEST-type phosphatases to their substrates (PMID: 19584923). It is involved in regulation of the actin cytoskeleton. Preferentially expressed in hematopoietic tissues, PSTPIP1 binds to the cytoplasmic tail of CD2, negatively affecting CD2-triggered T cell activation (PMID: 16670297). It has also been shown to interact with ABL1, PTPN18, WAS, CD2AP, PTPN12 and MEFV/pyrin. Mutations in the gene of PSTPIP1 cause PAPA syndrome (Pyogenic sterile Arthritis, Pyoderma gangrenosum, and Acne), an autoinflammatory disease (PMID:11971877; 14595024).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiaomeng Pei	33125582	AMB Express	WB
Zhi Xia	35571056	Front Genet	IHC

## 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:

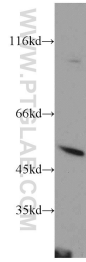
T: 4006900926

E: Proteintech-CN@ptglab.com

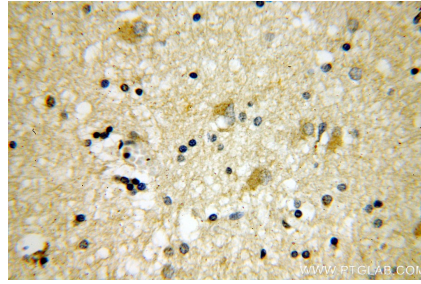
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## Selected Validation Data



mouse thymus tissue were subjected to SDS PAGE followed by western blot with 11951-1-AP (PSTPIP1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 11951-1-AP (PSTPIP1 antibody) at dilution of 1:50 (under 40x lens).