

For Research Use Only

PSTPIP1 Polyclonal antibody

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



Basic Information

| | | |
|---|---|--|
| Catalog Number: 11951-1-AP | GenBank Accession Number: BC008602 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 200 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 9051 | Recommended Dilutions: WB 1:200-1:1000 IHC 1:20-1:200 |
| Source: Rabbit | Full Name: proline-serine-threonine phosphatase interacting protein 1 | |
| Isotype: IgG | Calculated MW: 416 aa, 48 kDa | |
| Immunogen Catalog Number: AG2551 | Observed MW: 45-48 kDa | |

Applications

| | |
|--|---|
| Tested Applications: IHC, WB, ELISA | Positive Controls: WB: mouse thymus tissue, IHC: human brain tissue, |
| Cited Applications: IHC, WB | |
| Species Specificity: human, mouse, rat | |
| Cited Species: 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

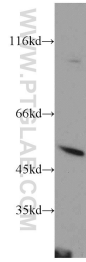
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

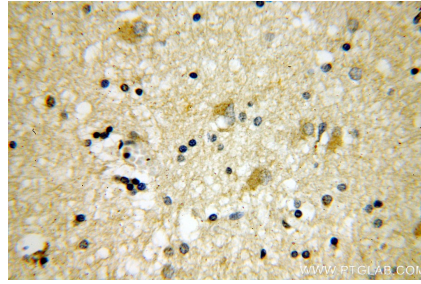
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Selected Validation Data



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).