




# Anti-PSTPIP1 antibody ab197260

[4 References](#) [2 Images](#)

## Overview

<b>Product name</b>	Anti-PSTPIP1 antibody
<b>Description</b>	Rabbit polyclonal to PSTPIP1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Recombinant fragment corresponding to Human PSTPIP1 aa 50-350. Database link: <a href="#">O43586</a> <div>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </div>
<b>Positive control</b>	Raji cell lysates. Human fetal lymph node tissue.
<b>General notes</b>	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

## Properties

<b>Form</b>	Lyophilized:Reconstitute with 200 uL sterile distilled water.
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 98% PBS
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab197260 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.
WB		1/200 - 1/1000. Predicted molecular weight: 48 kDa.

## Target

### Function

Involved in regulation of the actin cytoskeleton. May regulate the WAS actin-bundling activity. Bridges the interaction between ABL1 and PTPN18 leading to the ABL1 dephosphorylation. May play a role as a scaffold protein between PTPN12 and WAS and allows PTPN12 to dephosphorylate WAS. Has the potential to physically couple CD2 and CD2AP to WAS. Acts downstream of CD2 and CD2AP to recruit WAS to the T-cell:APC contact site so as to promote the actin polymerization required for synapse induction during T-cell activation (By similarity). Down-regulates CD2-stimulated adhesion through the coupling of PTPN12 to CD2.

### Tissue specificity

Highly expressed in the peripheral blood leukocytes, granulocytes and monocytes, namely in T-cells and natural killer cells, and in spleen. Weakly expressed in the thymus, small intestine, lung and placenta.

### Involvement in disease

Defects in PSTPIP1 are the cause of PAPA syndrome (PAPAS) [MIM:604416]; also known as pyogenic sterile arthritis, pyoderma gangrenosum and acne or familial recurrent arthritis (FRA). PAPAS is characterized by autosomal dominant inheritance of early onset, primarily affecting skin and joint tissues. Recurring inflammatory episodes lead to accumulation of sterile, pyogenic, neutrophil-rich material within the affected joints, ultimately resulting in significant destruction.

### Sequence similarities

Contains 1 FCH domain.  
Contains 1 SH3 domain.

### Domain

The coiled domain mediates interaction with PTPN18, PTPN12 and CD2AP. The SH3 domain mediates interaction with WAS and ABL1 (By similarity). The SH3 and coiled-coil domains are necessary for the interaction with MEFV.

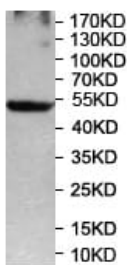
### Post-translational modifications

Dephosphorylated on Tyr-345 by PTPN18, this event negatively regulates the association of PSTPIP1 with SH2 domain-containing proteins as tyrosine kinase. Phosphorylation of Tyr-345 is probably required for subsequent phosphorylation at other tyrosine residues. Phosphorylation is induced by activation of the EGFR and PDGFR in a ABL1 dependent manner. The phosphorylation regulates the interaction with WAS and with MEFV.

### Cellular localization

Cytoplasm. Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cytoplasm > perinuclear region. Cleavage furrow. Colocalized with the cortical actin cytoskeleton during interphase, lamellipodia and actin-rich cytokinetic cleavage furrow. Colocalized with WAS to filamentous structures within the cytoplasm. Colocalized with PTPN12 in the cytoplasm and the perinuclear region. Colocalized with CD2AP and WAS in the actin cytoskeleton. Colocalized with CD2, CD2AP and WAS at the site of T-cell:APC contact.

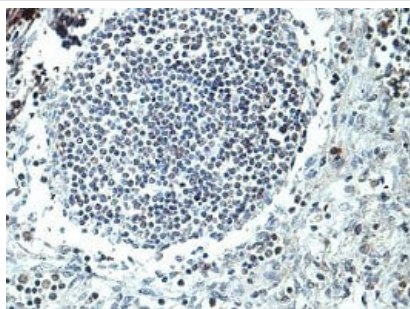
## Images



Western blot - Anti-PSTPIP1 antibody (ab197260)

Anti-PSTPIP1 antibody (ab197260) at 1/1000 dilution + Raji cell lysates

**Predicted band size:** 48 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PSTPIP1 antibody (ab197260)

Immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded Human fetal lymph node tissue, labeling PSTPIP1 with ab197260 at 1/100 dilution.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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