

## Rabbit Anti-PSTPIP2/Cy5.5 Conjugated antibody

SL19580R-Cy5. 5

<b>Product Name</b>	Anti-PSTPIP2/Cy5.5
<b>Chinese Name</b>	Cy5.5 标记的脯氨酸-丝氨酸-苏氨酸磷酸酶相互作用蛋白 2 抗体
<b>Alias</b>	Macrophage actin associated tyrosine phosphorylated protein; Macrophage actin-associated tyrosine-phosphorylated protein; MAYP; PPIP2_HUMAN; Proline serine threonine phosphatase interacting protein 2; Proline-serine-threonine phosphatase-interacting protein 2.
<b>Research Area</b>	Cell biology Signal transduction Binding protein Cytoskeleton
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Rat(predicted:Human,Mouse,Pig,Horse,Rabbit)
<b>Applications</b>	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	39kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human PSTPIP2
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Product Detail</b>	<b>Function:</b> Binds to F-actin. May be involved in regulation of the actin cytoskeleton (By similarity).

**Subunit:**

Homodimer (PubMed:19584923). Homotrimer PubMed:17964261). Interacts (via coiled-coil domain) with CD2AP, PTPN12 and PTPN18. Interacts (via SH3 domain) with ABL1 and WAS. Interacts (via SH3 and coiled-coil domains) with MEFV (via B-box zinc finger); the interaction allows binding of MEFV to PYCARD and facilitates formation of PYCARD pyroptosomes. Interacts with CD2, DNM2 and FASLG.

**Subcellular Location:**

Cell Membrane; peripheral membrane protein and Cytoplasmic (by similarity).

**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.

**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 (By similarity).

**DISEASE:**

PAPA syndrome (PAPAS) [MIM:604416]: 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.

**Similarity:**

Contains 1 F-BAR domain.

Contains 1 SH3 domain.

**Database links:**

[Entrez Gene: 9050](#) Human

[Entrez Gene: 19201](#) Mouse



[Entrez Gene: 307248](#) Rat

[SwissProt: Q9H939](#) Human

[SwissProt: Q99M15](#) Mouse

[Unigene: 567384](#) Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.