

**PTPN22 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP57589****Specification**

---

**PTPN22 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	<a href="#">O9Y2R2</a>
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91705

**PTPN22 Polyclonal Antibody - Additional Information****Gene ID** 26191**Other Names**

Tyrosine-protein phosphatase non-receptor type 22, 3.1.3.48, Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP, Lymphoid phosphatase, LyP, PEST-domain phosphatase, PEP, PTPN22, PTPN8

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**PTPN22 Polyclonal Antibody - Protein Information****Name** PTPN22**Synonyms** PTPN8**Function**

Acts as a negative regulator of T-cell receptor (TCR) signaling by direct dephosphorylation of the Src family kinases LCK and FYN, ITAMs of the TCRz/CD3 complex, as well as ZAP70, VAV, VCP and other key signaling molecules (PubMed:<a href="http://www.uniprot.org/citations/16461343" target="\_blank">16461343</a>, PubMed:<a href="http://www.uniprot.org/citations/18056643" target="\_blank">18056643</a>). Associates with and probably dephosphorylates CBL. Dephosphorylates LCK at its activating 'Tyr-394' residue (PubMed:<a href="http://www.uniprot.org/citations/21719704" target="\_blank">21719704</a>). Dephosphorylates ZAP70 at its activating 'Tyr-493' residue (PubMed:<a href="http://www.uniprot.org/citations/16461343" target="\_blank">16461343</a>). Dephosphorylates the immune system activator SKAP2 (PubMed:<a href="http://www.uniprot.org/citations/21719704" target="\_blank">21719704</a>). Positively regulates toll-like receptor (TLR)-induced type 1 interferon production (PubMed:<a

[23871208](http://www.uniprot.org/citations/23871208)). Promotes host antiviral responses mediated by type 1 interferon (By similarity). Regulates NOD2-induced pro-inflammatory cytokine secretion and autophagy (PubMed:[23991106](http://www.uniprot.org/citations/23991106)). Acts as an activator of NLRP3 inflammasome assembly by mediating dephosphorylation of 'Tyr-861' of NLRP3 (PubMed:[27043286](http://www.uniprot.org/citations/27043286)). Dephosphorylates phospho-anandamide (p-AEA), an endocannabinoid to anandamide (also called N-arachidonoyl ethanolamide) (By similarity).

**Cellular Location**

Cytoplasm {ECO:0000250|UniProtKB:P29352}.

**Tissue Location**

Expressed in bone marrow, B and T-cells, PBMCs, natural killer cells, monocytes, dendritic cells and neutrophils (PubMed:15208781). Both isoform 1 and 4 are predominantly expressed in lymphoid tissues and cells. Isoform 1 is expressed in thymocytes and both mature B and T-cells.

**PTPN22 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PTPN22 Polyclonal Antibody - Images**