PTP22 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTP22, Polyclonal Antibody
Full Product Name	PTP22 Rabbit Polyclonal Antibody
Product Gene Name	anti-PTP22 antibody
Product Synonym Gene Name	PTPN22
Product Synonym Names	PTPN22; PTPN8; Tyrosine-protein phosphatase non-receptor type 22; Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP; Lymphoid phosphatase; LyP; PEST-domain phosphatase; PEP; BH6842; Tyrosine-protein phosphatase non-receptor type 22
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	PTP22 Polyclonal Antibody detects endogenous levels of PTP22 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	91,705 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (114356433..114414375, complement). Location: 1p13.2
OMIM	152700
3D Structure	ModBase 3D Structure for Q9Y2R2
Immunogen	Synthesized peptide derived from the N-terminal region of human PTP22.
Modification	Unmodified/Total
Applications Tested/Suitable for anti-PTP22 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PTP22 antibody	WB: 1/500-1/2000 ELISA: 1/10000
Related Product Information for anti-PTP22 antibody	This gene encodes of member of the non-receptor class 4 subfamily of the protein-tyrosine phosphatase family. The encoded protein is a lymphoid-specific intracellular phosphatase that associates with the molecular adapter protein CBL and may be involved in regulating CBL function in the T-cell receptor signaling pathway. Mutations in this gene may be associated with a range of autoimmune disorders including Type 1 Diabetes, rheumatoid arthritis, systemic lupus erythematosus and Graves' disease. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Mar 2009]
Other Notes	Small volumes of anti-PTP22 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTP22 purchase	MBS9512277 is an antibody targeting PTP22. Also known as PTP22 Rabbit Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTP22. It may not necessarily be applicable to this product.

NCBI GI #	301171669
NCBI GeneID	26191
NCBI Accession #	NP_001180360.1
UniProt Primary Accession #	Q9Y2R2
UniProt Secondary Accession #	O95063; O95064; Q6IPX8; Q8WVM1; A0N0K6; B1ALC8; D4NZ71; E9PPI1
UniProt Related Accession #	Q9Y2R2
GenBank Nucleotide #	NM_001193431.1
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 22 isoform 3
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
NCBI Official Symbol	PTPN22
NCBI Official Synonym Symbols	LYP; PEP; LYP1; LYP2; PTPN8
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 22
UniProt Synonym Protein Names	Hematopoietic cell protein-tyrosine phosphatase 70Z-PEP; Lymphoid phosphatase; LyP; PEST-domain phosphatase
UniProt Gene Name	PTPN22
UniProt Synonym Gene Names	PTPN8; LyP; PEP
UniProt Entry Name	PTN22_HUMAN
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 22; lymphoid phosphatase; PEST-domain phosphatase; lymphoid-specific protein tyrosine phosphatase; protein tyrosine phosphatase, non-receptor type 8; hematopoietic cell protein-tyrosine phosphatase 70Z-PEP
UniProt Comments for PTP22	PTPN22: Seems to act on Cbl. May play a role in regulating the function of Cbl and its associated protein kinases. Acts as negative regulator of T-cell receptor (TCR) signaling. Dephosphorylates and inactivates the SRC family kinases. Interacts with CSK. Interacts with LPXN. Predominantly expressed in lymphoid tissues and cells. Isoform 1 is expressed in thymocytes and both mature B and T-cells. Down-regulated by phosphorylation. Belongs to the protein-tyrosine phosphatase family. Non-receptor class 4 subfamily. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Protein phosphatase, tyrosine (non-receptor); EC 3.1.3.48 Chromosomal Location of Human Ortholog: 1p13.2 Cellular Component: internal side of plasma membrane; perinuclear region of cytoplasm; cytoplasm; nucleus Molecular Function: protein binding; protein tyrosine phosphatase activity; kinase binding; SH3 domain binding Biological Process: regulation of B cell receptor signaling pathway; regulation of natural killer cell proliferation; negative regulation of T cell receptor signaling pathway; protein amino acid dephosphorylation; negative regulation of T cell activation; T cell differentiation; regulation of innate immune response Disease: Diabetes Mellitus, Insulin-dependent; Systemic Lupus Erythematosus; Rheumatoid Arthritis
Research Articles on PTP22	**1.** Knockdown of PTPN22 alters activation of inflammatory signal transducers, increasing secretion of T-helper 17-related inflammatory mediators.

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