PTP22 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	PTP22, Polyclonal Antibody
Full Product Name	PTP22 Polyclonal Antibody
Product Gene Name	anti-PTP22 antibody
Clonality	Polyclonal
Molecular Weight	75,488 Da
OMIM	152700
3D Structure	ModBase 3D Structure for Q9Y2R2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PTP22 antibody	MBS8524882 is an antibody targeting PTP22. Also known as PTP22 Polyclonal Antibody.
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.

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; E9PLD8; E9PPI1
UniProt Related Accession #	Q9Y2R2
GenBank Nucleotide #	NM_001193431.2
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
NCBI Official Symbol	PTPN22
NCBI Official Synonym Symbols	LYP; PEP; LYP1; LYP2; PTPN8; PTPN22.5; PTPN22.6
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; PEP
UniProt Gene Name	PTPN22
UniProt Synonym Gene Names	PTPN8; LyP; PEP
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 22

NCBI Summary for PTP22	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]
UniProt Comments for PTP22	Acts as 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:16461343, PubMed:18056643). Associates with and probably dephosphorylates CBL. Dephosphorylates LCK at its activating 'Tyr-394' residue (PubMed:21719704). Dephosphorylates ZAP70 at its activating 'Tyr-493' residue (PubMed:16461343). Dephosphorylates the immune system activator SKAP2 (PubMed:21719704). Positively regulates toll-like receptor (TLR)-induced type 1 interferon production (PubMed:23871208). Promotes host antiviral responses mediated by type 1 interferon (). Regulates NOD2-induced pro-inflammatory cytokine secretion and autophagy (PubMed:23991106).
Research Articles on PTP22	**1.** Our data provide the first demonstration that PTPN22 R620W confers Graves Disease susceptibility among Latin-American patients.
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