

Rabbit PTPN22 Polyclonal Antibody | anti-PTPN22 antibody

PTPN22 antibody

CATALOG # AAA305129	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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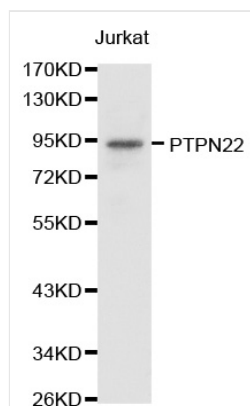
PRODUCT SYNONYMS

PTPN22; Polyclonal Antibody; PTPN22 antibody; LYP; LYP1; LYP2; PEP; PTPN8; anti-PTPN22 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total PTPN22 antibody.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	779
Applicable Applications for anti-PTPN22 antibody	WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PTPN22.
Target Name	PTPN22
Preparation and Storage	Store at -20 degree C

IMAGES


WB (Western Blot)

Western blot analysis of extracts of Jurkat cell lines, using PTPN22 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PTPN22 antibody	PTPN22 (Lyp/PEP) is a cytoplasmic phosphatase expressed by hematopoietic cells (1,2). PTPN22 associates with the tyrosine kinase Csk to inhibit T cell receptor signaling through inactivation of Src kinases (3,4). Csk phosphorylates Src kinases on an inhibitory tyrosine, while PTPN22 dephosphorylates an activating site (4). PTPN22(-/-) mice have higher levels of activated Lck than wild-type, resulting in greater T cell expansion and increased serum antibody levels (5). Research studies have shown that a single-nucleotide polymorphism, 1858T of the PTPN22 gene which encodes the amino acid substitution R620W, confers increased risk for multiple autoimmune diseases including type I diabetes, rheumatoid arthritis, systemic lupus erythematosus, and Graves disease (6-9). Interestingly, although the R620W substitution disrupts the interaction between Csk and PTPN22, it is actually a gain-of-function mutation resulting in increased phosphatase activity (6,10,11). Recent evidence suggests that the autoimmune phenotype associated with the R620W variant is the result of increased calpain-mediated degradation and decreased protein levels of PTPN22 (12).
Product Categories/Family for anti-PTPN22 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	301171669
NCBI GeneID	26191
NCBI Accession #	NP_001180360.1
NCBI GenBank Nucleotide #	NM_001193431.2
UniProt Accession #	Q9Y2R2; O95063; O95064; Q6IPX8; Q8WVM1; A0N0K6; B1ALC8; D4NZ71; E9PLD8; E9PPI1
Molecular Weight	SDS-PAGE: 92kd
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
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 22
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 22
UniProt Gene Name	PTPN22
UniProt Synonym Gene Names	PTPN8; LyP; PEP
UniProt Entry Name	PTN22_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.