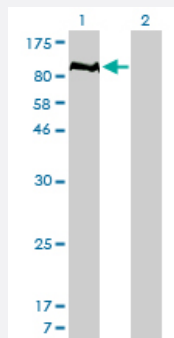


PTPN22 monoclonal antibody (M01), clone 4F6

Catalog # H00026191-M01

Size 100 ug

Applications

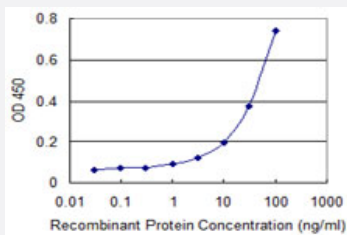


Western Blot (Transfected lysate)

Western Blot analysis of PTPN22 expression in transfected 293T cell line by PTPN22 monoclonal antibody (M01), clone 4F6.

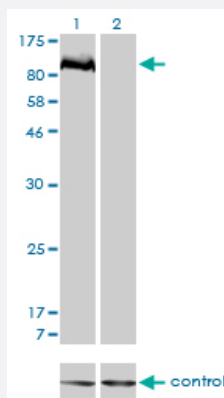
Lane 1: PTPN22 transfected lysate (85.1 kDa).

Lane 2: Non-transfected lysate.



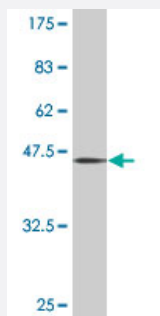
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTPN22 is 1 ng/ml as a capture antibody.



RNAi Knockdown (Antibody validated)

Western blot analysis of PTPN22 over-expressed 293 cell line, cotransfected with PTPN22 Validated Chimera RNAi (Cat # H00026191-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PTPN22 monoclonal antibody (M01), clone 4F6 (Cat # H00026191-M01). GAPDH (36.1 kDa) used as specificity and loading control.



Western Blot detection against Immunogen (45.43 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant PTPN22.
Immunogen	PTPN22 (AAH17785, 1 a.a. ~ 179 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MDQREILQKFLDEAQSCKITKEEFANFLKLRQSTKYKADKTYPTTVAEKPKNIKKNRYKDILPYD YSRVELSLITSDDEDSSYINANFIKGVYGPAYATQGPLSTLLDFWRMIWEYSVLIVMACMEYEMG KEAEKRKSDYIIRTLKVKFNSVSVILAHQTSLQNLF SQITPAHF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (60); Rat (63)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (45.43 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

Western Blot analysis of PTPN22 expression in transfected 293T cell line by PTPN22 monoclonal antibody (M01), clone 4F6.

Lane 1: PTPN22 transfected lysate(85.1 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTPN22 is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of PTPN22 over-expressed 293 cell line, cotransfected with PTPN22 Validated Chimera RNAi (Cat # H00026191-R01V) (Lane 2) or non-transfected control (Lane 1). Blot probed with PTPN22 monoclonal antibody (M01), clone 4F6 (Cat # H00026191-M01). GAPDH (36.1 kDa) used as specificity and loading control.

[Protocol Download](#)

Gene Info — PTPN22

Entrez GeneID [26191](#)

GeneBank Accession# [BC017785](#)

Protein Accession# [AAH17785](#)

Gene Name PTPN22

Gene Alias LYP, Lyp1, Lyp2, PEP, PTPN8

Gene Description protein tyrosine phosphatase, non-receptor type 22 (lymphoid)

Omim ID [152700](#) [180300](#) [222100](#) [600716](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations OTTHUMP00000013720|lymphoid-specific protein tyrosine phosphatase|protein tyrosine phosphatase, non-receptor type 8

Publication Reference

- [Protein tyrosine phosphatase receptor type R \(PTPRR\) antagonizes the Wnt signaling pathway in ovarian cancer by dephosphorylating and inactivating \$\beta\$ -catenin.](#)

Wang Y, Cao J, Liu W, Zhang J, Wang Z, Zhang Y, Hou L, Chen S, Hao P, Zhang L, Zhuang M, Yu Y, Li D, Fan G.

The Journal of Biological Chemistry 2019 Nov; 294(48):18306.

Application: WB-Ce, Human, HOSE 6-3, HOSE 11-12, Ovarian carcinoma-derived cell lines

- [Experimental ischemia/reperfusion model impairs endocannabinoid signaling and Na⁺/K⁺ ATPase expression and activity in kidney proximal tubule cells.](#)

Sampaio LS, Iannotti FA, Veneziani L, Borelli-Tôrres RT, De Maio F, Piscitelli F, Reis RAM, Di Marzo V, Einicker-Lamas M.

Biochemical Pharmacology 2018 Aug; 154:482.

Application: WB-Ce, Pig, LLC-PK1 cells

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