

Datasheet for ABIN7601051
anti-PTPN12 antibody (AA 276-311)



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Overview

Quantity:	100 µg
Target:	PTPN12
Binding Specificity:	AA 276-311
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN12 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PTPN12 Antibody Picoband®
Immunogen:	E.coli-derived human PTPN12 recombinant protein (Position: A276-D311).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PTPN12 Antibody Picoband® (ABIN7601051). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PTPN12
Alternative Name:	PTPN12 (PTPN12 Products)
Background:	Synonyms: Platelet basic protein, PBP, C-X-C motif chemokine 7, Leukocyte-derived growth factor, LDGF, Macrophage-derived growth factor, MDGF, Small-inducible cytokine B7, PPBP, CTAP3, CXCL7, SCYB7, TGB1, THBGB1, NAP-2 Background: Tyrosine-protein phosphatase non-receptor type 12 is an enzyme that in humans is encoded by the PTPN12 gene. The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Molecular Weight:	110 kDa
Gene ID:	5782
UniProt:	Q05209

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Charest, A., Wagner, J., Muise, E. S., Heng, H. H. Q., Tremblay, M. L. Structure of the murine MPTP-PEST gene: genomic organization and chromosomal mapping. <i>Genomics</i> 28: 501-507, 1995. 2. Cong, F., Spencer, S., Cote, J.-F., Wu, Y., Tremblay, M. L., Lasky, L. A., Goff, S. P. Cytoskeletal protein PSTPIP1 is the PEST-type protein tyrosine phosphatase to the c-Abl kinase to mediate Abl dephosphorylation. <i>Molec. Cell</i> 6: 1413-1423, 2000. 3. Spencer, S., Dowbenko, D., Cheng, J., Li, W., Brush, J., Utzig, S., Simanis, V., Lasky, L. A. PSTPIP: a tyrosine phosphorylated cleavage furrow-associated protein that is a substrate for PEST tyrosine phosphatase. <i>J. Cell Biol.</i> 138: 845-860, 1997.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage:	4 °C, -20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.