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PTPN12 (C) Antibody, Rabbit Polyclonal

Cat#: R1693-2

Quantity: 100 ul

Predicted | Observed M.W.: 88 | 110 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q05209

Background:

Tyrosine-protein phosphatase non-receptor type 12 (PTPN12) 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. PTPN12 contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. PTPN12 was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. PTPN12 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, suggesting that it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms [provided by RefSeq].

Other Names:

Tyrosine-protein phosphatase non-receptor type 12, PTP-PEST, Protein-tyrosine phosphatase G1, PTPG1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human PTPN12. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

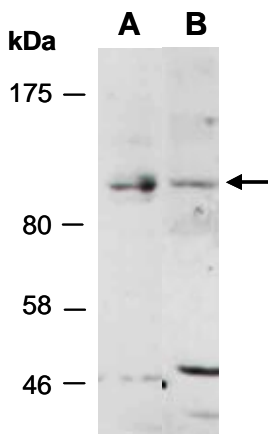


Fig 1. Western blot of total cell extracts from (A) mouse brain, (B) human HeLa; using anti-PTPN12 (C) (R1693-2) at RT for 2 h.