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Box 1 | Basic Info

Cat. No.	ABP-PAB-11039
Animal ID	RB0425-0426
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_005401
Amount	100 µg

Alternative Name(s): PEZ, PTP36 Alias: cytoskeletal-associated protein tyrosine phosphatase

PTPN14, Protein tyrosine phosphatase non-receptor type 14 polyclonal antibody

Protein tyrosine phosphatase non-receptor type 14 (PTPN14) is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. PTPN14 contains an N-terminal non-catalytic domain similar to that of band 4.1 superfamily cytoskeleton-associated proteins, which suggested the membrane or cytoskeleton localization of this protein.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 493 - 509 [RHPYTVPYGPGQGVYSNK] of the human protein tyrosine phosphatase non-receptor type 14 (PTPN14) protein.

Application:

Tested by peptide-specific ELISA (1:1,000). Storage

Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Aoyama K, Matsuda T, Aoki N: Characterization of newly identified four isoforms for a putative cytosolic protein tyrosine phosphatase PTP36. *Biochem. Biophys. Res. Commun.* 266(2): 523-531 (1999).
2. Ogata M, Takada T, Mori Y, Uchida Y, Miki T, Okuyama A, Kosugi A, Sawada M, Oh-hora M, Hamaoka T: Regulation of phosphorylation level and distribution of PTP36, a putative protein tyrosine phosphatase, by cell-substrate adhesion. *J. Biol. Chem.* 274(29): 20717-20724 (1999).
3. Ogata M, Takada T, Mori Y, Oh-hora M, Uchida Y, Kosugi A, Miyake K, Hamaoka T: Effects of overexpression of PTP36, a putative protein tyrosine phosphatase, on cell adhesion, cell growth, and cytoskeletons in HeLa cells. *J. Biol. Chem.* 274(18): 12905-12909 (1999).
4. Smith AL, Mitchell PJ, Shipley J, Gusterson BA, Rogers MV, Crompton MR: Pez: a novel human cDNA encoding protein tyrosine phosphatase- and ezrin-like domains. *Biochem. Biophys. Res. Commun.* 209(3): 959-965 (1995).