

Product datasheet for **AP26438PU-N**

PTPH1 (PTPN3) pSer459 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1/1000.
Reactivity:	Bovine, Canine, Human, Mouse, Primate, Sheep
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser459 of human PTPH1
Specificity:	Specific for ~104k PTPH1 protein phosphorylated at Ser 459. Immunolabeling is blocked by preadsorption of the antibody with the phosphopeptide used as antigen but not by the corresponding dephosphopeptide. Immunolabeling is also completely eliminated by treatment with λ phosphatase.
Formulation:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 μ g per ml BSA and 50% glycerol State: Aff - Purified State: Liquid Ig fraction
Purification:	Affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, non-receptor type 3
Database Link:	Entrez Gene 5774 Human P26045



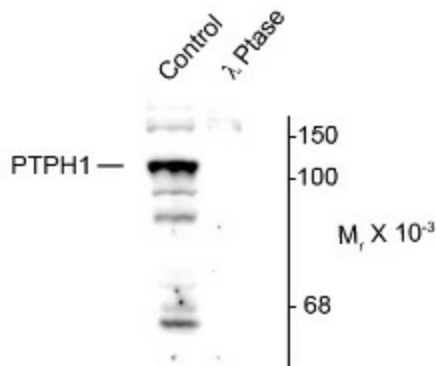
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Background:

Protein-tyrosine Phosphatase H1 (PTPH1) has recently been identified as a specific p38 γ MAPK phosphatase which is mediated through PDZ interaction (Hou et al., 2010). Ras has been demonstrated to increase both p38 γ and PTPH1 protein expression, and there is a coupling of increased p38 γ and PTPH1 protein expression in primary colon cancer tissues (Hou et al., 2010). Phosphorylation of PTPH1 at Ser459 leads to PTPH1 stabilization, which plays an important role in Ras oncogenesis and stress response (Hou et al., 2012). Additionally, phosphorylation of PTPH1 Ser459 reveals a novel mechanism by which MAPK signals through PTPH1 to regulate cellular response (Hou et al., 2012).

Synonyms:

Protein-tyrosine phosphatase H1, PTP-H1

Product images:


Western blot of mouse testes lysate showing specific immunolabeling of the ~104k PTPH1 phosphorylated at Ser 459 (Control). Phosphospecificity is shown in the second lane (λ -phosphatase: λ -Ptase). The blot is identical to the control except that the lysate was incubated in λ -Ptase (400 units/100ul lysate for 30 min, RT) before being exposed to the phospho-Ser 459 PTPH1 antibody. The immunolabeling is completely eliminated by treatment with λ -Ptase.