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Anti-PTPH1 (Ser459) Antibody

Our Anti-PTPH1 (Ser459) rabbit polyclonal phosphospecific primary antibody from PhosphoSolutions is
Catalog # AN1531

Product Information

Application	WB
Primary Accession	P26045
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	103990

Additional Information

Gene ID	5774
Other Names	cytoskeletal-associated protein tyrosine phosphatase antibody, protein tyrosine phosphatase H1 antibody, protein tyrosine phosphatase non-receptor type 3 antibody, Protein-tyrosine phosphatase H1 antibody, PTN3_HUMAN antibody, PTP-H1 antibody, PTPH1 antibody, PTPN3 antibody, Tyrosine-protein phosphatase non-receptor type 3 antibody
Target/Specificity	Protein-tyrosine Phosphatase H1 (PTPH1) has recently been identified as a specific p38γ MAPK phosphatase which is mediated through PDZ interaction (Hou et al., 2010). Ras has been demonstrated to increase both p38γ and PTPH1 protein expression, and there is a coupling of increased p38γ and PTPH1 protein expression in primary colon cancer tissues (Hou et al., 2010). Phosphorylation of PTPH1 at Ser-459 leads to PTPH1 stabilization, which plays an important role in Ras oncogenesis and stress response (Hou et al., 2012). Additionally, phosphorylation of PTPH1 Ser-459 reveals a novel mechanism by which MAPK signals through PTPH1 to regulate cellular response (Hou et al., 2012).
Dilution	WB~~1:1000
Format	Antigen Affinity Purified from Pooled Serum
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-PTPH1 (Ser459) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Protein-tyrosine Phosphatase H1 (PTPH1) has recently been identified as a specific p38γ MAPK phosphatase which is mediated through PDZ interaction (Hou et al., 2010). Ras has been demonstrated to increase both p38γ and PTPH1 protein expression, and there is a coupling of increased p38γ and PTPH1 protein expression in primary colon cancer tissues (Hou et al., 2010). Phosphorylation of PTPH1 at Ser-459 leads to PTPH1 stabilization, which plays an important role in Ras oncogenesis and stress response (Hou et al., 2012). Additionally, phosphorylation of PTPH1 Ser-459 reveals a novel mechanism by which MAPK signals through PTPH1 to regulate cellular response (Hou et al., 2012).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.