

Datasheet for 600-401-X22**PTPH1 Phospho S459 Antibody****Overview**

Description:	Anti-PTPH1 pS459 (RABBIT) Antibody - 600-401-X22
Item No.:	600-401-X22
Size:	100 µL
Applications:	WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Protein-tyrosine Phosphatase H1 (PTPH1) has recently been identified as a specific p38γ MAPK phosphatase which is mediated through PDZ interaction. Ras has been demonstrated to increase both p38 gamma and PTPH1 protein expression, and there is a coupling of increased p38 gamma and PTPH1 protein expression in primary colon cancer tissues. Phosphorylation of PTPH1 at Ser459 leads to PTPH1 stabilization, which plays an important role in Ras oncogenesis and stress response. Additionally, phosphorylation of PTPH1 Ser459 reveals a novel mechanism by which MAPK signals through PTPH1 to regulate cellular response. PTPH1 pS459 Antibody is ideal for researchers interested in cancer research.
Synonyms:	PTPN3, Tyrosine-protein phosphatase non-receptor type 3, Protein-tyrosine phosphatase H1, PTP-H1, PTPH1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PTPN3
Reactivity:	Human, Mouse
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Phospho-Ser459 PTPH1 Antibody was produced in rabbits by repeated immunizations with a synthetic phospho-peptide corresponding to amino acid residues surrounding the phospho-Ser459 of human PTPH1 conjugated to KLH.
Purity/Specificity:	Anti-Phospho-Ser459 PTPH1 Antibody is directed against PTPH1 protein phosphorylated at S459. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated PTPH1. Minimal reactivity occurs against non-phosphorylated PTPH1. Reactivity against PTPH1 occurs from human sources. However, reactivity is also expected against bovine, canine, non-human primate, and sheep based on 100% sequence homology.
Relevant Links:	• UniProtKB - P26045 • GeneID - 5774 • NCBI - NP_002820.3

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Ser459 PTPH1 Antibody is tested for Western Blots and is specific for the ~104 kDa PTPH1 protein phosphorylated at Ser459. 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 lambda-phosphatase. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

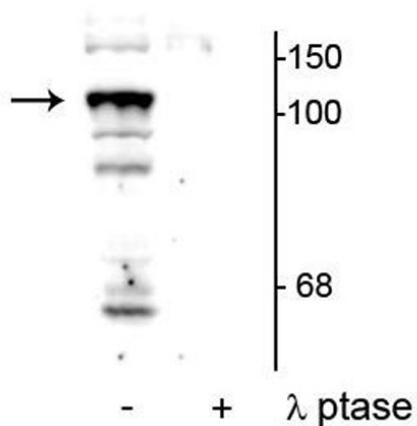
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot of Anti-PTPH1 pS459 Antibody. Mouse testicular lysate showing specific immunolabeling of the ~104 kDa PTPH1 phosphorylated at Ser459 in the first lane (-). Phosphospecificity is shown in the second lane (+) where the immunolabeling is completely eliminated by lysate treatment with lambda phosphatase (λ-Ptase, 400 units/100ul lysate for 30 minutes, RT).

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.