

## ARG52405 anti-PTPN3 / PTPH1 phospho (Ser459) antibody

Package: 50 μl Store at: -20°C

# Summary

Product Description	Rabbit Polyclonal antibody recognizes PTPN3 / PTPH1 phospho (Ser459)
Tested Reactivity	Hu, Ms
Predict Reactivity	Bov, Dog, NHuPrm, Sheep
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
lsotype	lgG
Target Name	PTPN3 / PTPH1
Species	Human
Immunogen	KLH-conjugated synthetic phospho-peptide around Ser459.
Conjugation	Un-conjugated
Alternate Names	PTPH1; EC 3.1.3.48; Protein-tyrosine phosphatase H1; Tyrosine-protein phosphatase non-receptor type 3; PTP-H1

## **Application Instructions**

Application table	Application	Dilution
	WB	1:1000
Application Note	Specific for ~104k 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 λ phosphatase. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

#### Properties

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### **Bioinformation**

Database links	GenelD: 545622 Mouse
	GenelD: 5774 Human
	Swiss-port # A2ALK8 Mouse
	Swiss-port # P26045 Human
Gene Symbol	PTPH1
Gene Full Name	protein tyrosine phosphatase, non-receptor type 3
Background	Protein-tyrosine Phosphatase H1 (PTPH1) has recently been identified as a specific p38y MAPK phosphatase which is mediated through PDZ interaction (Hou et al., 2010). Ras has been demonstrated to increase both p38y and PTPH1 protein expression, and there is a coupling of increased p38y 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).
Research Area	Signaling Transduction antibody
Calculated Mw	104 kDa

#### Images



# ARG52405 anti-PTPN3 / PTPH1 phospho (Ser459) antibody WB image

Western blot: Mouse testes lysate showing specific immunolabeling of ~104 kDa PTPH1 phosphorylated at Ser459 (Control). Phosphospecificity is shown in the second lane (lambda-phosphatase:  $\lambda$ -Ptase) stained with ARG52405 anti-PTPN3 / PTPH1 phospho (Ser459) antibody.

The blot is identical to the control except that the lysate was incubated in  $\lambda$ -Ptase (400 units/100  $\mu$ l lysate for 30 min, RT) before being exposed to the phospho-Ser 459 PTPN3 / PTPH1 antibody. The immunolabeling is completely eliminated by treatment with  $\lambda$ -Ptase.