# ANTIBODIES ONLINE

## Datasheet for ABIN967772 anti-PTPN1 antibody (AA 269-435)

2	Images
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5 Publications



#### Overview

Quantity:	50 µg
Target:	PTPN1
Binding Specificity:	AA 269-435
Reactivity:	Human, Mouse, Rat, Dog, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PTPN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

## Product Details

Immunogen:	Human PTP1B aa. 269-435
Clone:	15-PTP1B
Isotype:	lgG2a
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken, Frog
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
	2. Please refer to us for technical protocols.
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide
	compounds in running water before discarding to avoid accumulation of potentially explosive
	deposits in plumbing.
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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Product Details	
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity
	chromatography.

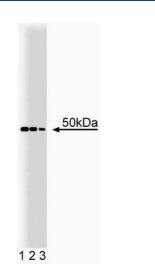
## Target Details

Target:	PTPN1
Alternative Name:	PTP1B (PTPN1 Products)
Background:	PTP1B is a member of the class of enzymes termed protein tyrosine phosphatases (PTPs).
	This 50 kDa protein contains a conserved phosphatases domain at residues 30-278 and is
	localized to the cytoplasmic face of the endoplasmic reticulum by its C-terminal 35 residues. Its
	interactions with other proteins are mediated by proline-rich regions and SH2 compatible
	sequences. PTP1B is thought to act as a negative regulator in insulin signaling. Insulin
	stimulation induces its association with the insulin receptor and tyrosine phosphorylation. Its
	overexpression inhibits proximal and distal insulin signaling events, possibly due to receptor
	dephosphorylation. Microinjection of PTP1B into Xenopus oocytes blocks insulin-induced
	maturation. Additional studies demonstrate that PTP1B undergoes cell cycle-dependent and/or
	stress-induced serine phosphorylation. This suggests further regulatory roles that are not yet
	defined.
Molecular Weight:	50 kDa
Pathways:	TLR Signaling, Response to Growth Hormone Stimulus, ER-Nucleus Signaling, Platelet-derived
	growth Factor Receptor Signaling
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09$ % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.

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Handling	
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Handling	
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Rutledge, Whiteheart: "SNAP-23 is a target for calpain cleavage in activated platelets." in: <b>The</b>
	Journal of biological chemistry, Vol. 277, Issue 40, pp. 37009-15, (2002) (PubMed).
	Xu, Arregui, Lilien, Balsamo: "PTP1B modulates the association of beta-catenin with N-cadherin
	through binding to an adjacent and partially overlapping target site." in: The Journal of
	biological chemistry, Vol. 277, Issue 51, pp. 49989-97, (2002) (PubMed).
	Tao, Malbon, Wang: "Galpha(i2) enhances insulin signaling via suppression of protein-tyrosine
	phosphatase 1B." in: <b>The Journal of biological chemistry</b> , Vol. 276, Issue 43, pp. 39705-12, ( 2001) (PubMed).
	Bharadwaj, Ali, Ovsenek: "Multiple components of the HSP90 chaperone complex function in
	regulation of heat shock factor 1 In vivo." in: Molecular and cellular biology, Vol. 19, Issue 12,
	pp. 8033-41, (2000) (PubMed).
	Gaits, Li, Bigay, Ragab, Ragab-Thomas, Chap: "G-protein beta gamma subunits mediate specific
	phosphorylation of the protein-tyrosine phosphatase SH-PTP1 induced by lysophosphatidic
	acid." in: The Journal of biological chemistry, Vol. 271, Issue 33, pp. 20151-5, (1996) (PubMed



### Western Blotting

**Image 1.** Western blot analysis of PTP1B on SW13 lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1: 10000 dilution of PTP1B.

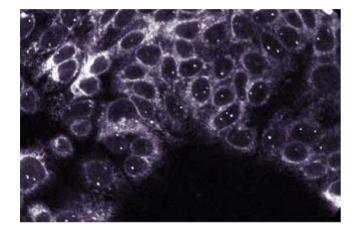


Image 2. HCT-8

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