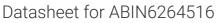
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# anti-PTPN2 antibody (C-Term)

2 Images



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Overview	
Quantity:	100 μL
Target:	PTPN2
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PTPN2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA
Product Details	
Immunogen:	A synthesized peptide derived from human PTPN2, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	PTPN2 Antibody detects endogenous levels of total PTPN2.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	PTPN2

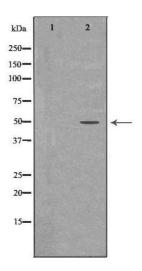
Alternative Name:	PTPN2 (PTPN2 Products)
Background:	Description: Non-receptor type tyrosine-specific phosphatase that dephosphorylates receptor
	protein tyrosine kinases including INSR, EGFR, CSF1R, PDGFR. Also dephosphorylates non-
	receptor protein tyrosine kinases like JAK1, JAK2, JAK3, Src family kinases, STAT1, STAT3 and
	STAT6 either in the nucleus or the cytoplasm. Negatively regulates numerous signaling
	pathways and biological processes like hematopoiesis, inflammatory response, cell
	proliferation and differentiation, and glucose homeostasis. Plays a multifaceted and important
	role in the development of the immune system. Functions in T-cell receptor signaling through
	dephosphorylation of FYN and LCK to control T-cells differentiation and activation.
	Dephosphorylates CSF1R, negatively regulating its downstream signaling and macrophage
	differentiation. Negatively regulates cytokine (IL2/interleukin-2 and interferon)-mediated
	signaling through dephosphorylation of the cytoplasmic kinases JAK1, JAK3 and their
	substrate STAT1, that propagate signaling downstream of the cytokine receptors. Also
	regulates the IL6/interleukin-6 and IL4/interleukin-4 cytokine signaling through
	dephosphorylation of STAT3 and STAT6 respectively. In addition to the immune system, it is
	involved in anchorage-dependent, negative regulation of EGF-stimulated cell growth. Activated
	by the integrin ITGA1/ITGB1, it dephosphorylates EGFR and negatively regulates EGF signaling
	Dephosphorylates PDGFRB and negatively regulates platelet-derived growth factor receptor-
	beta signaling pathway and therefore cell proliferation. Negatively regulates tumor necrosis
	factor-mediated signaling downstream via MAPK through SRC dephosphorylation. May also
	regulate the hepatocyte growth factor receptor signaling pathway through dephosphorylation
	of the hepatocyte growth factor receptor MET. Plays also an important role in glucose
	homeostasis. For instance, negatively regulates the insulin receptor signaling pathway through
	the dephosphorylation of INSR and control gluconeogenesis and liver glucose production
	through negative regulation of the IL6 signaling pathways. May also bind DNA.
	Gene: PTPN2
Molecular Weight:	49kDa
Gene ID:	5771
UniProt:	P17706
Pathways:	EGFR Signaling Pathway, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic
	Process, Platelet-derived growth Factor Receptor Signaling

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## **Application Details**

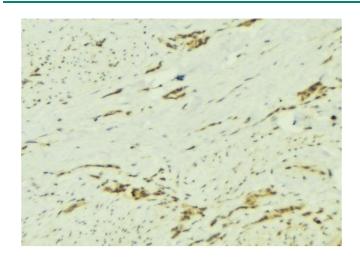
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 $\%$ sodium azide and 50 $\%$
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

### Images



#### **Western Blotting**

**Image 1.** Western blot analysis of K562 whole cell lysates, using PTPN2 Antibody. The lane on the left is treated with the antigen-specific peptide.



#### **Immunohistochemistry**

**Image 2.** ABIN6276892 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22¡ãC. An HRP conjugated goat anti-rabbit antibody was used as the secondary