antibodies -online.com







anti-PTPN1 antibody (AA 221-249)

Image



Publications



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Alternative Name:

Quantity:	400 μL	
Target:	PTPN1	
Binding Specificity:	AA 221-249	
Reactivity:	Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This PTPN1 antibody is un-conjugated	
Application:	Western Blotting (WB)	
Product Details		
Immunogen:	This PTPN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic	
	peptide between 221-249 amino acids from the Central region of human PTPN1.	
Clone:	RB41801	
Isotype:	lg Fraction	
Predicted Reactivity:	Rat	
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.	
Target Details		
Target:	PTPN1	

PTPN1 (PTPN1 Products)

Target Details

Background:

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation.

Molecular Weight:

49967

NCBI Accession:

NP_001265547, NP_002818

UniProt:

P18031

Pathways:

TLR Signaling, Response to Growth Hormone Stimulus, ER-Nucleus Signaling, Platelet-derived growth Factor Receptor Signaling

Application Details

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App	iication	110163.

WB: 1:1000

Restrictions:

For Research Use only

Handling

Format:	Liquid	
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.	
Storage:	4 °C,-20 °C	
Expiry Date:	6 months	

Product cited in:

Hyrskyluoto, Bruelle, Lundh, Do, Kivinen, Rappou, Reijonen, Waltimo, Petersén, Lindholm, Korhonen: "Ubiquitin-specific protease-14 reduces cellular aggregates and protects against mutant huntingtin-induced cell degeneration: involvement of the proteasome and ER stress-activated kinase IRE1?." in: **Human molecular genetics**, Vol. 23, Issue 22, pp. 5928-39, (2014) (PubMed).

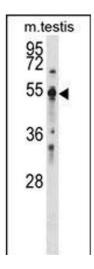
Davila, Froeling, Tan, Bonnard, Boland, Snippe, Hibberd, Seielstad: "New genetic associations detected in a host response study to hepatitis B vaccine." in: **Genes and immunity**, Vol. 11, Issue 3, pp. 232-8, (2010) (PubMed).

Chen, Qin, Li, Walters, Wilson, Mei, Wilson: "The proteasome-associated deubiquitinating enzyme Usp14 is essential for the maintenance of synaptic ubiquitin levels and the development of neuromuscular junctions." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 29, Issue 35, pp. 10909-19, (2009) (PubMed).

Nagai, Kadowaki, Maruyama, Takeda, Nishitoh, Ichijo: "USP14 inhibits ER-associated degradation via interaction with IRE1alpha." in: **Biochemical and biophysical research communications**, Vol. 379, Issue 4, pp. 995-1000, (2009) (PubMed).

Mines, Goodwin, Limbird, Cui, Fan: "Deubiquitination of CXCR4 by USP14 is critical for both CXCL12-induced CXCR4 degradation and chemotaxis but not ERK ativation." in: **The Journal of biological chemistry**, Vol. 284, Issue 9, pp. 5742-52, (2009) (PubMed).

Images



Western Blotting

Image 1. PTPN1 Antibody (Center) (ABIN1881705 and ABIN2839035) western blot analysis in mouse testis tissue lysates (35 μ g/lane). This demonstrates the PTPN1 antibody detected the PTPN1 protein (arrow).