

[KO Validated] PTPN1 Polyclonal Antibody

Catalog No.	A1590	Category	Polyclonal Antibodies
Applications	WB, IHC, IF	Observed MW	50kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	49kDa

Immunogen Information

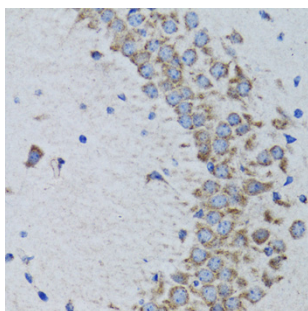
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 281-435 of human PTPN1 (NP_002818.1).
Gene ID	5770
Swiss prot	P18031
Synonyms	PTPN1; PTP1B; tyrosine-protein phosphatase non-receptor type 1

Product information

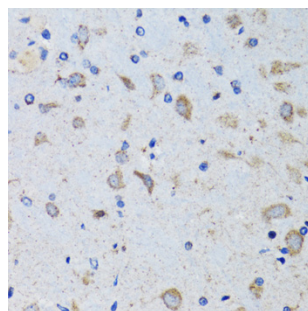
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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 phosphotyrosine 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. Two transcript variants encoding different isoforms have been found for this gene.



Immunohistochemistry - [KO Validated] PTPN1 Polyclonal Antibody (A1590)



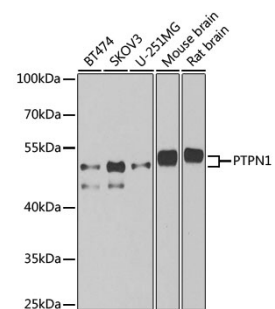
Immunohistochemistry - [KO Validated] PTPN1 Polyclonal Antibody (A1590)

Recommended Dilutions

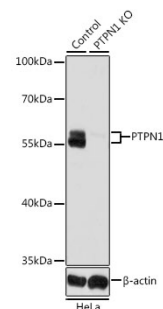
WB 1:500 -
1:2000

IHC 1:50 -
1:200

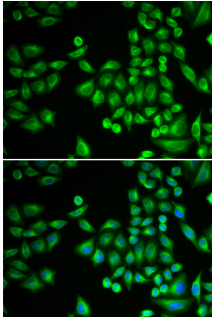
IF 1:10 -
1:100



Western blot - [KO Validated] PTPN1 Polyclonal Antibody (A1590)



Western blot - [KO Validated] PTPN1 Polyclonal Antibody (A1590)



Immunofluorescence - [KO Validated]
PTPN1 Polyclonal Antibody (A1590)