

# Anti-PTPN1 Rabbit Polyclonal Antibody

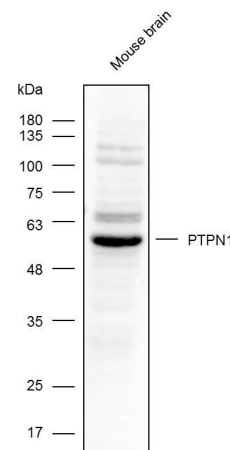
Cat:AC51630

## Basic information

**Source:** Rabbit**Swiss Prot:**P18031**Species reactivity:** Human,Mouse,Rat**Gene ID:**5770**Isotype:** IgG**Tested applications:** WB,IHC,IF**Purification:** Affinity purification**Immunogen:**Recombinant protein of human PTPN1**MW(kDa):**50kDa**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.



Western blot analysis with Anti-PTPN1 Rabbit Polyclonal  
Antibody diluted at 1:1,000