

## Mouse Monoclonal Antibody to PTPN1

<b>Catalogue Number</b>	sAP-1048
<b>Target Molecule</b>	<p><b>Name:</b> PTPN1</p> <p><b>Aliases:</b> PTP1B</p> <p><b>MW:</b> 50kDa</p> <p><b>Entrez Gene ID:</b> 5770</p>
<b>Description</b>	<p>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,</p>
<b>Immunogen</b>	Purified recombinant fragment of human PTPN1 (AA: 40-246) expressed in E. Coli.
<b>Reactive Species</b>	Human;
<b>Clone</b>	MM4F8F2;
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. Med Oncol. 2012 Jun;29(2):948-56. ; 2. Cell Biol Int. 2010 Jul;34(7):747-53.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**