

Rabbit Anti-PTP1B antibody

SLM-60700R

Product Name PTP1B

Chinese Name 蛋白酪氨酸磷酸酶-1B Recombinant rabbit monoclonal anti

Alias PTN1_HUMAN; Tyrosine-protein phosphatase non-receptor type 1; EC:3.1.3.48; PTPN1; Protein tyrosine phosphatase 1B (PTP-1B);

Research Area Tumour immunology Signal transduction Tumour Cell biology Maker

Immunogen Species Rabbit

Clonality Monoclonal

Clone NO. R3F5

React Species Human, Mouse, Rat

Applications WB=1:500-2000, IHC-P=1:200-500, IHC-F=1:200-500, ICC/IF=1:50-200, IF=1:200-500, Flow-Cytometry
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 50kDa

Cellular localization cytoplasmic The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human PTP1B

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed [PubMed](#)

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family. It was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the transfer 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 participate in a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. 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 response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

SWISS:
P18031

**Product
Detail**

Gene ID:
5770

Database links:

[Entrez Gene: 5770](#) Human

[Entrez Gene: 19246](#) Mouse

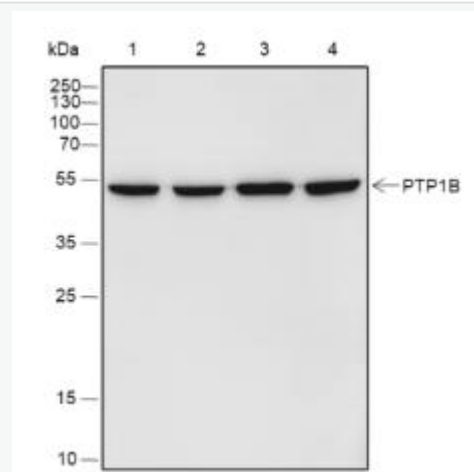
[Entrez Gene: 24697](#) Rat

[SwissProt: P18031](#) Human

[SwissProt: P35821](#) Mouse

[SwissProt: P20417](#) Rat

**Product
Picture**



Blocking buffer: 5% NFDN/TBST

Primary Ab dilution: 1:2000

Primary Ab incubation condition: 2 hours at
room temperature

Secondary Ab: Goat Anti-Rabbit IgG H&L
(HRP)

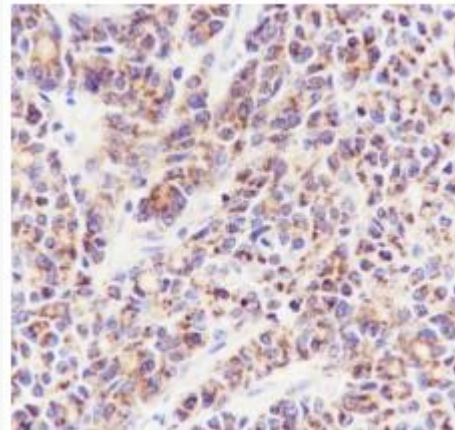
Lysate: 1: HeLa, 2: Jurkat, 3: RAW 264.7, 4:
PC-12

Protein loading quantity: 20 μ g

Exposure time: 60 s

Predicted MW: 50 kDa

Observed MW: 50 kDa



Tissue: Human colon cancer

Section type: Formalin-fixed & Paraffin
embedded section

Retrieval method: High temperature and high

pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 1 hour at

room temperature

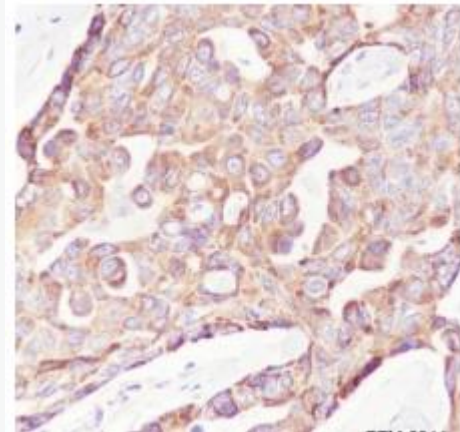
Secondary Ab: Anti-Rabbit and Mouse

Polymer HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal

for SLM-60700R



Tissue: Human breast cancer

Section type: Formalin-fixed & Paraffin

embedded section

Retrieval method: High temperature and high

pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 1 hour at

room temperature

Secondary Ab: Anti-Rabbit and Mouse

Polymer HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal

for SLM-60700R