

## Anti-PTPN1/2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

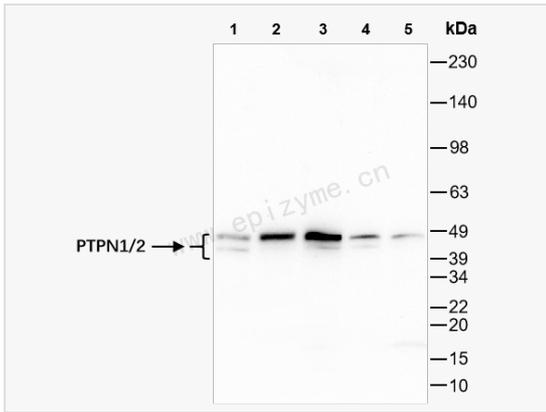
Catalog # R015619

### Product Information

Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	91M66B51
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PTPN1/2
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PTPN1/2 Rabbit mAb [91M66B51] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	PTP1B; Non receptor tyrosine phosphatase 1; Protein phosphotyrosylphosphatase 1B; Protein tyrosine phosphatase 1B; Protein tyrosine phosphatase non receptor type 1; Protein tyrosine phosphatase placental; Protein-tyrosine phosphatase 1B; PTN1_HUMAN; PTP 1B; PTP-1B; PTPN 1; PTPN1; Tyrosine protein phosphatase non receptor type 1; Tyrosine-protein phosphatase non-receptor type 1; Protein tyrosine phosphatase non receptor type 2; PTN2; PTN2_HUMAN; PTPN 2; Ptpn2; PTPT; T cell protein tyrosine phosphatase; T-cell protein-tyrosine phosphatase; TC PTP; TCELLPTP; TCPTP; Tyrosine protein phosphatase non receptor type 2; Tyrosine-protein phosphatase non-receptor type 2.
Calculated MW	Calculated MW: 50,48 kDa; Observed MW: 40-48 kDa
Uniprot ID	P18031, P17706
Gene ID	5770, 5771
Background	The protein encoded by this gene (PTPN1) 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. [provided by RefSeq, Jul 2013] The protein encoded by this gene



Western Blot - Anti-PTPN1/2 Rabbit mAb [91M66B51]

All lanes: R015619 at 1:1,000 dilution

Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2: 293T (Human embryonic kidney cell) whole cell lysates

Lane 3: K562 (Human chronic myeloid leukemia cell) whole cell lysates

Lane 4: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 5: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

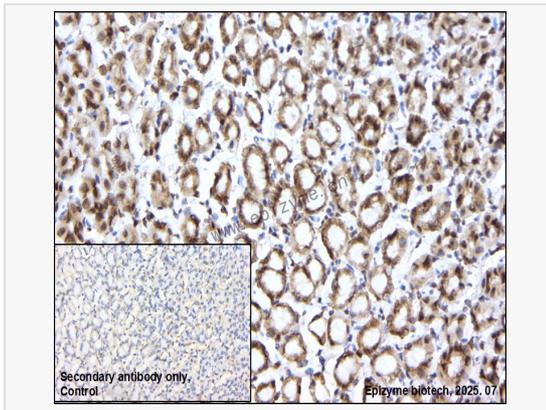
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 50,48 kDa

Observed band size: 40-48 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PTPN1/2 Rabbit mAb [91M66B51]

Sample: Paraformaldehyde-fixed, paraffin embedded rat stomach tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015619 at 1:200 dilution

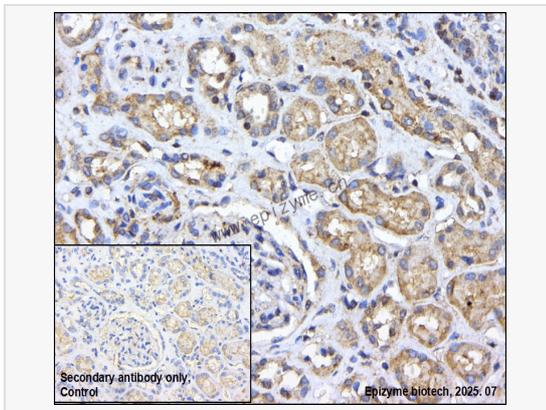
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PTPN1/2 Rabbit mAb [91M66B51]

Sample: Paraformaldehyde-fixed, paraffin embedded human renal carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015619 at 1:200 dilution

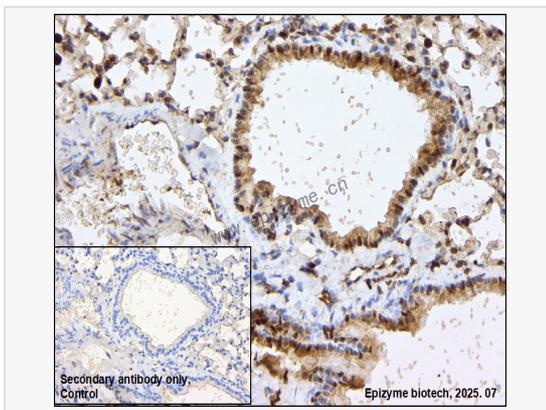
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PTPN1/2 Rabbit mAb [91M66B51]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015619 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.