Anti-SHP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014213

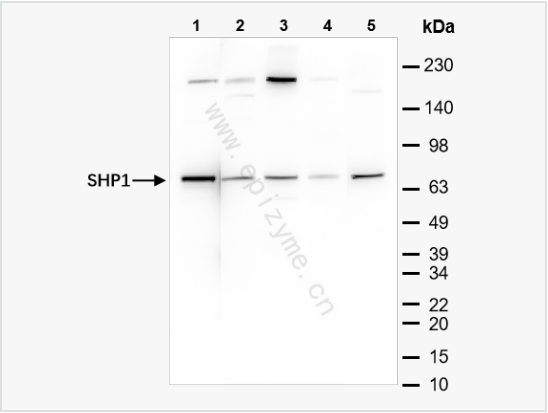
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, 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.	26K02P34
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human SHP1
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-SHP1 Rabbit mAb [26K02P34] is for research use only and not for use in diagnostic or therapeutic procedures.

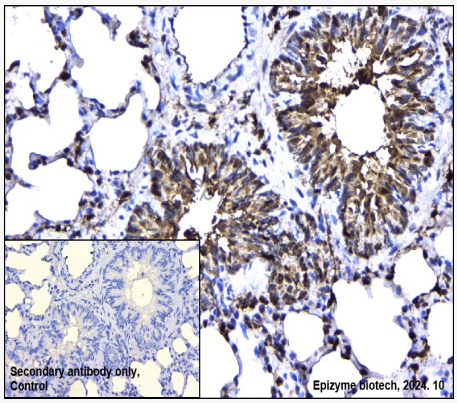
Protein Information

Synonyms	70Z-SHP, EC 3.1.3.48, HCP, HCPH, Hematopoietic cell phosphatase, Hematopoietic cell protein tyrosine phosphatase, Hematopoietic cell protein-tyrosine phosphatase, HPTP1C, Protein tyrosine phosphatase 1C, Protein tyrosine phosphatase non receptor type 6, Protein tyrosine phosphatase SHP1, Protein-tyrosine phosphatase 1C, protein-tyrosine phosphatase SHP 1, Protein-tyrosine phosphatase SHP-1, PTN6_HUMAN, PTP 1C, PTP-1C, PTP1C, Ptpn6, SH PTP 1, SH PTP1, SH-PTP1, SHP 1, SHP 1L, SHP1, SHP1L, tyrosine protein phosphatase non receptor type 6, Tyrosine-protein phosphatase non-receptor type 6.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 68 kDa
Uniprot ID	P29350
Gene ID	5777
Background	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation.
Cellular Location	Cytoplasm. Nucleus. In neurons, translocates into the nucleus after treatment with angiotensin II.
Tissue Location	Isoform 1 is expressed in hematopoietic cells. Isoform 2 is expressed in non-hematopoietic cells.

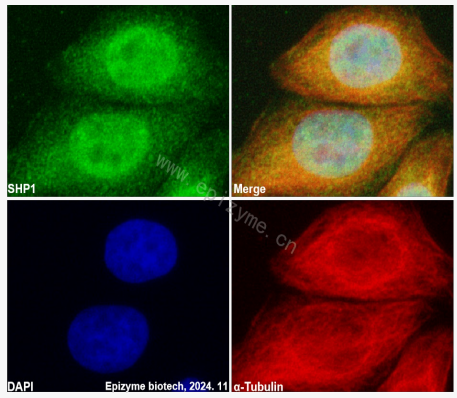
Validation Images



Western Blot - Anti-SHP1 Rabbit mAb [26K02P34]
All lanes: R014213 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: Mouse muscle whole tissue 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: 68 kDa
Observed band size: 68 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-SHP1 Rabbit mAb [26K02P34]
Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014213 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.



Immunofluorescence - Anti-SHP1 Rabbit mAb [26K02P34]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014213 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).