Anti-SHP2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014058

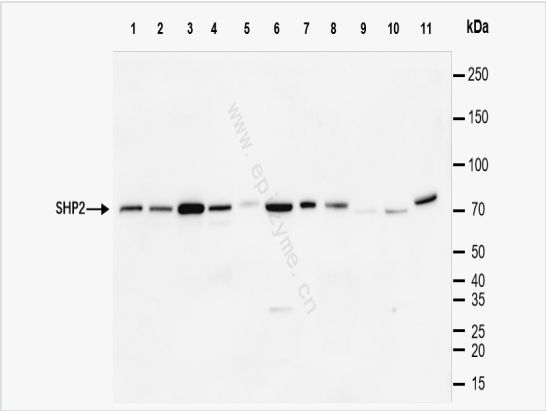
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	69E66O87
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of mouse SHP2
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-SHP2 Rabbit mAb [69E66O87] is for research use only and not for use in diagnostic or therapeutic procedures.

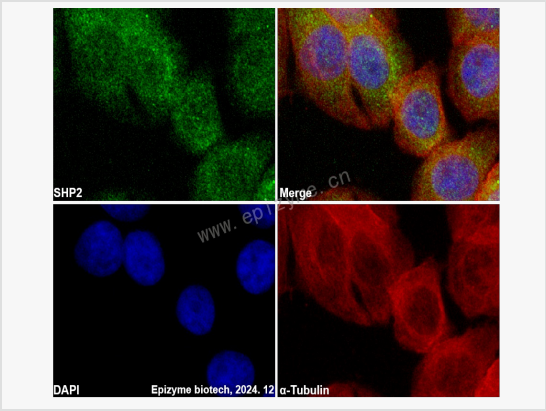
Protein Information

Synonyms	BPTP3, CFC, JMML, METCDS, MGC14433, NS1, OTTHUMP00000166107, OTTHUMP00000166108, Protein tyrosine phosphatase 2, Protein tyrosine phosphatase 2C, Protein tyrosine phosphatase non receptor type 11, Protein-tyrosine phosphatase 1D, Protein-tyrosine phosphatase 2C, PTN11_HUMAN, PTP-1D, PTP-2C, PTP1D, PTP2C, PTPN11, SAP2, SH-PTP2, SH-PTP3, SH2 domain containing protein tyrosine phosphatase 2, SHP 2, SHP-2, Shp2, SHPTP2, SHPTP3, Syp, Tyrosine-protein phosphatase non-receptor type 11.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 72 kDa
Uniprot ID	P35235
Gene ID	19247
Background	Enables cell adhesion molecule binding activity; protein tyrosine phosphatase activity; and signaling receptor binding activity. Involved in negative regulation of chondrocyte differentiation; positive regulation of cytokine production; and positive regulation of ossification. Acts upstream of or within several processes, including cell surface receptor signaling pathway; myeloid cell differentiation; and regulation of hormone secretion. Predicted to be located in several cellular components, including mitochondrion; plasma membrane raft; and stress fiber. Predicted to be part of protein-containing complex. Is expressed in several structures, including alimentary system; brain; genitourinary system; hemolymphoid system gland; and liver and biliary system. Used to study several diseases, including Noonan syndrome 1; Noonan syndrome with multiple lentigines; hepatocellular adenoma; intrinsic cardiomyopathy (multiple); and juvenile myelomonocytic leukemia. Human ortholog(s) of this gene implicated in several diseases, including Noonan syndrome (multiple); Noonan syndrome with multiple lentigines 1; atrophic gastritis; juvenile myelomonocytic leukemia; and metachondromatosis. Orthologous to human PTPN11 (protein

Validation Images



Western Blot - Anti-SHP2 Rabbit mAb [69E66O87]
All lanes: R014058 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: Rat heart whole tissue lysates
Lane 7: Rat brain whole tissue lysates
Lane 8: Rat spleen whole tissue lysates
Lane 9: Mouse small intestine whole tissue lysates
Lane10: Mouse kidney whole tissue lysates
Lane11: 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: 72 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-SHP2 Rabbit mAb [69E66O87]
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: R014058 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).