

# SHP-1 Monoclonal Antibody (14D5)

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	14D5
Conjugate	Unconjugated
Immunogen	Recombinant human protein purified from E.coli(His/ABD-SHP1)
Form	Liquid
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_1960151

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	-
Immunocytochemistry (ICC/IF)	1:250	-
ELISA (ELISA)	Assay-dependent	-

## Product Specific Information

A suggested positive control for this product is HL-60 cells.

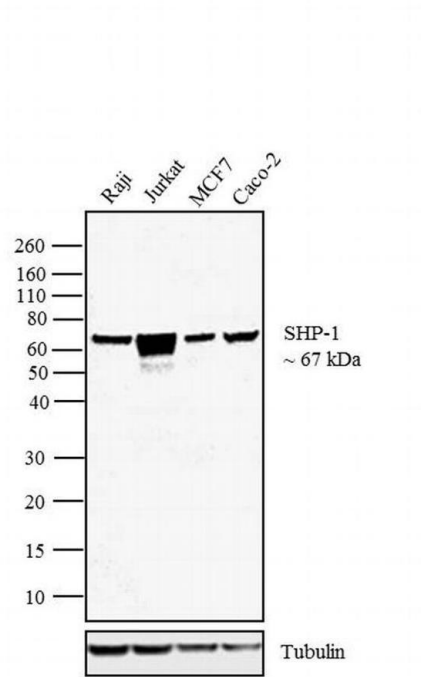
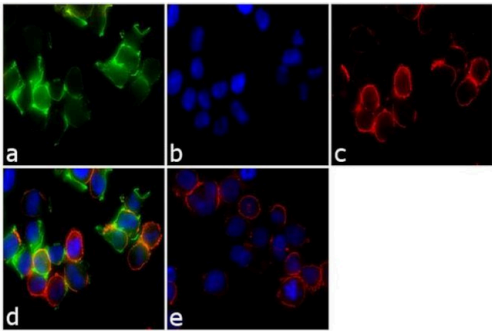
Product Images For SHP-1 Monoclonal Antibody (14D5)

SHP-1 Antibody (LF-MA0212) in ICC/IF

Immunofluorescence analysis of SHP-1 Monoclonal Antibody was performed using 70% confluent log phase K562 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with SHP-1 (14D5) Mouse Monoclonal Antibody (Product # LF-MA0212) at 1:250 dilution in 0.1% BSA, incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic and membranous localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification

SHP-1 Antibody (LF-MA0212) in WB

Western blot analysis was performed on nuclear enriched extracts (30 µg lysate) of Raji (Lane 1), Jurkat (Lane 2), MCF7 (Lane 3) and Caco-2 (Lane 4). The blot was probed with Anti-SHP-1 Mouse Monoclonal Antibody (Product # LF-MA0212, 1:2,000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A 67 kDa band corresponding to SHP-1 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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