

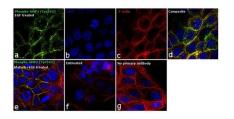


Phospho-SHP2 (Tyr542) Polyclonal Antibody

Product Details		
Size	100 μL	
Species Reactivity	Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	The antiserum was produced against a chemically synthesized phosphopeptide derived from the region of human SHP2 that contains tyrosine 542. The sequence is conserved in mouse, rat and chicken.	
Form	Liquid	
Purification	Antigen affinity chromatography	
Storage buffer	Dulbecco's PBS, pH 7.3, with 1mg/mL BSA	
Contains	0.05% sodium azide	
Storage conditions	-20°C	
RRID	AB_2533679	

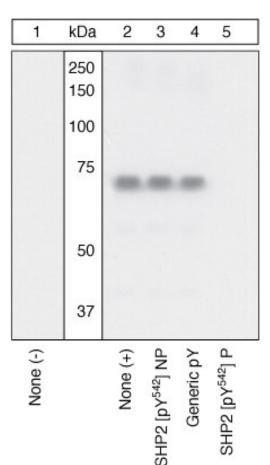
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:20	-
Immunocytochemistry (ICC/IF)	5 μg/mL	-

Product Images For Phospho-SHP2 (Tyr542) Polyclonal Antibody



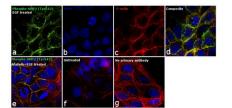
Phospho-SHP2 (Tyr542) Antibody (44-554G)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-SHP-2 (Tyr542) using Phospho-SHP-2 (Tyr542) Polyclonal Antibody (Product # 44-554G) shows induction of SHP-2 phosphorylation at Tyr542 residue in A-431 cell line upon EGF treatment. Pre-treatment with EGFR-antagonist Afatinib resulted in inhibition of phosphorylation following EGF treatment. {TM}



Phospho-SHP2 (Tyr542) Antibody (44-554G) in WB

Peptide Competition. Lysates prepared from NIH3T3 cells left untreated (1) or treated with PDGF (2-5). were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were blocked with a 3% BSA-TBST buffer for one hour at room temperature, and incubated with SHP2 (pY542) antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1, 2), the non-phosphopeptide corresponding to the immunogen (3), a generic phosphotyrosine-containing peptide (4), or, the phosphopeptide immunogen (5). After washing, membranes were incubated with goat F (ab')2 anti-rabbit IgG HRP conjugate (Product # ALI4404) and bands were detected using the Pierce SuperSignal™ method. The data show that only the peptide corresponding to SHP2 (pY542) blocks the signal, verifying the specificity of the antibody.



Phospho-SHP2 (Tyr542) Antibody (44-554G) in ICC/IF

Immunofluorescence analysis of Phospho-SHP-2 (Tyr542) Polyclonal Antibody was performed using 90% confluent log phase A-431 cells treated with 200 ng /mL of EGF for 10 minutes. 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 Phospho-SHP-2 (Tyr542) Polyclonal Antibody (Product # 44-554G) at 1:250 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IqG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) 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 membrane localization. Panel e represents cells treated with antagonist, Afatinib (0.5 uM for 6hrs) followed by EGF (200 ng/mL for 10 minutes), showing reduced expression of phospho-SHP2. Panel f shows untreated cells with no signal. Panel g represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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