Phospho-GSK3B (Ser9) Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Carrier-protein conjugated synthetic peptide corresponding to residues around human GSK3 alpha (phospho Ser21) + GSK3 beta (phospho Ser9).
Form	Liquid
Concentration	0.13 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol, 1% BSA
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2736381

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:500-1:3,000	-
Immunocytochemistry (ICC/IF)	1:100	-

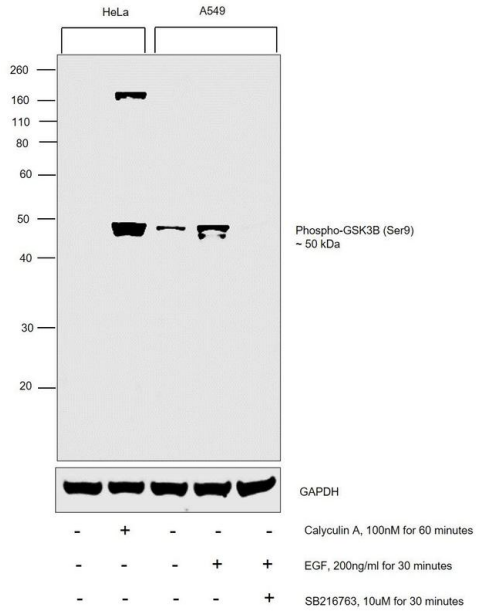
Product Specific Information

Positive Control: NIH3T3 starvation for 16 hr, NIH3T3(starvation for 16 hr and 5 ng/mL PDGF treatment for 15 min)

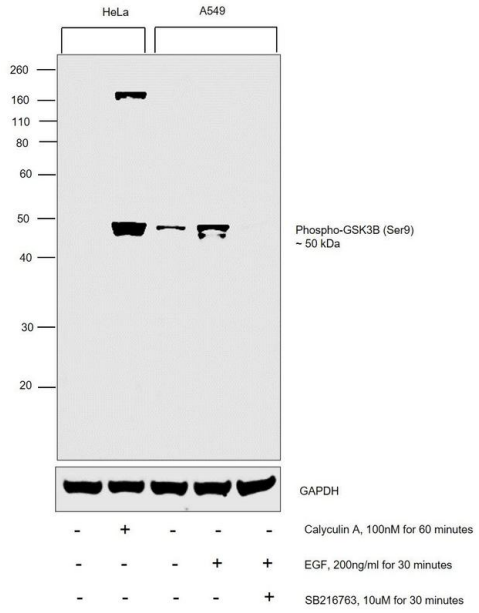
Predicted Reactivity: Rat (100%), Zebrafish (100%), Xenopus laevis (100%), Pig (100%), Sheep (100%), Bovine (100%)

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

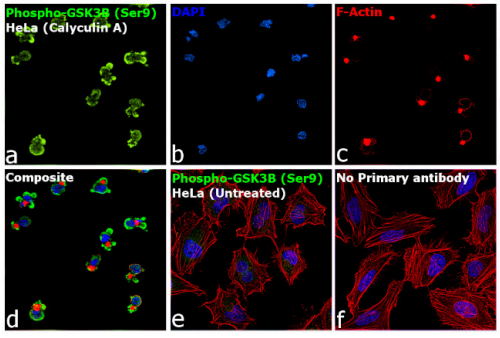
Product Images For Phospho-GSK3B (Ser9) Polyclonal Antibody



Phospho-GSK3B (Ser9) Antibody (PA5-78539)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Phospho-GSK3B (Ser9) Polyclonal Antibody (Product # PA5-78539), shows induction of protein in HeLa cells upon Calyculin A treatment, and upregulation in A549 cells upon EGF treatment and downregulation upon SB216763 followed by EGF treatment. {TM}



Phospho-GSK3B (Ser9) Antibody (PA5-78539) in WB
Western Blot was performed using Anti-Phospho-GSK3B (Ser9) Polyclonal Antibody (Product # PA5-78539) and a 50 kDa band corresponding to Glycogen synthase kinase-3 beta was observed to be induced upon Calyculin A treatment in HeLa cells, and upregulated upon EGF treatment and downregulated upon SB216763 followed by EGF treatment in A549 cells. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), HeLa treated with Calyculin A (100 nm for 60 minutes) (Lane 2), A549 (Lane 3), A549 treated with EGF (200 ng/mL for 30 minutes) (Lane 4) and A549 treated with SB216763 (10 µM for 30 minutes) followed by EGF (200 ng/mL for 30 mins) (Lane 5) were electrophoresed using NuPAGE™ 10% Bis-Tris Protein Gel (Product # NP0302BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23002) by iBlot® 2 Dry Blotting System (Product # IB21001). The Blot was probed with the primary antibody (1:1,000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).An uncharacterized band of ~160 kDa was also observed in HeLa treated with Calyculin A.



Phospho-GSK3B (Ser9) Antibody (PA5-78539) in ICC/IF
Immunofluorescence analysis of Glycogen synthase kinase-3 beta was performed using 70% confluent log phase HeLa and HeLa cells treated with Calyculin A (100 nm for 60 minutes). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Phospho-GSK3B (Ser9) Polyclonal Antibody (Product # PA5-78539) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1: 2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Plasma membrane and Cytoplasmic localization. Panel e represents untreated HeLa cells with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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