

PIK3CB Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to Human PIK3CB
Form	Liquid
Concentration	0.3 mg/mL
Purification	Anitgen affinity chromatography, Antigen affinity chromatography
Storage buffer	PBS, pH 7.2, with 40% glycerol
Contains	0.02% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2791782

Applications	Tested Dilution	Publications
Western Blot (WB)	0.04-0.4 µg/mL	-
Immunocytochemistry (ICC/IF)	0.25-2 µg/mL	-

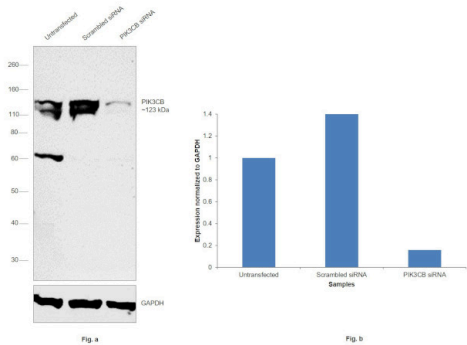
Product Specific Information

Immunogen sequence: LSLVGLSWMD WLKQTYPPEH EPSIPENLED KLYGGKLIVA VHFENCQDVF SFQVSPNMNP IKVNELAIQK RLTIHGK

Product Images For PIK3CB Polyclonal Antibody

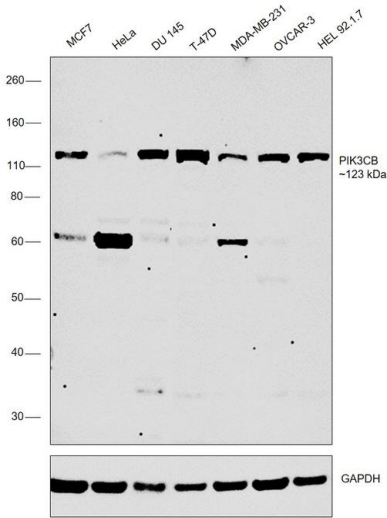
PIK3CB Antibody (PA5-84631)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform siRNA and decrease in signal intensity was observed in Western Blot application using Anti-PIK3CB Polyclonal Antibody (Product # PA5-84631). {KD}



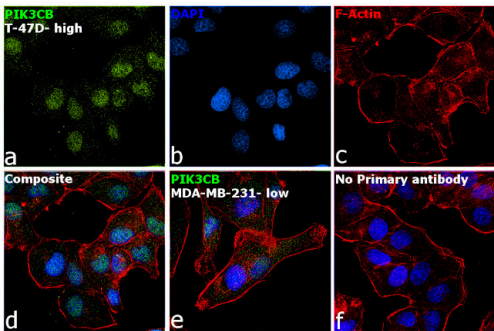
PIK3CB Antibody (PA5-84631) in WB

Western blot was performed using Anti-PIK3CB Polyclonal Antibody (Product # PA5-84631) and a 123 kDa band corresponding to Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform was observed across cell lines tested along with an additional uncharacterized band around 60 kDa. Higher expression of PIK3CB was observed in T-47D when compared to MDA-MB-231. Nuclear enriched extracts (30 µg lysate) of MCF7 (Lane 1), HeLa (Lane 2), DU 145 (Lane 3), T-47D (Lane 4), MDA-MB-231 (Lane 5), OVCAR-3 (Lane 6), HEL 92.1.7 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.1 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:6000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



PIK3CB Antibody (PA5-84631) in ICC/IF

Immunofluorescence analysis of Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform was performed using 70% confluent log phase T-47D and MDA-MB-231 cells. 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 PIK3CB Polyclonal Antibody (Product # PA5-84631) at 0.5 µg/mL 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 nuclear localization in T-47D. Panel e represents MDA-MB-231 cells with lesser expression of PIK3CB. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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