

PKA alpha Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 351 of PKA C alpha (Uniprot ID#P17612)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol
Contains	0.01% thimerosal
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_11151993

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3000	-
Immunocytochemistry (ICC/IF)	1:100-1:1000	-

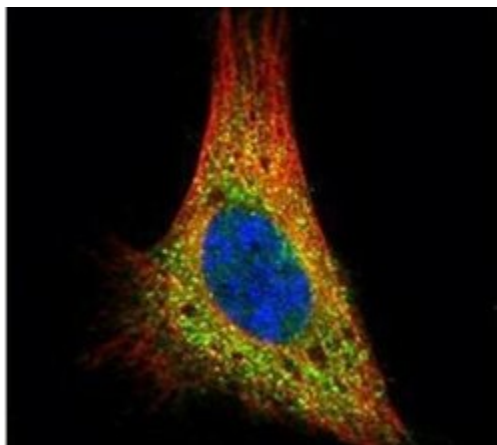
Product Specific Information

Recommended positive controls: HeLaS3, NIH-3T3, C2C12.

Predicted reactivity: Mouse (98%), Rat (98%), Xenopus laevis (94%), Dog (99%), Rabbit (97%), Sheep (99%), Bovine (99%).

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

Product Images For PKA alpha Polyclonal Antibody

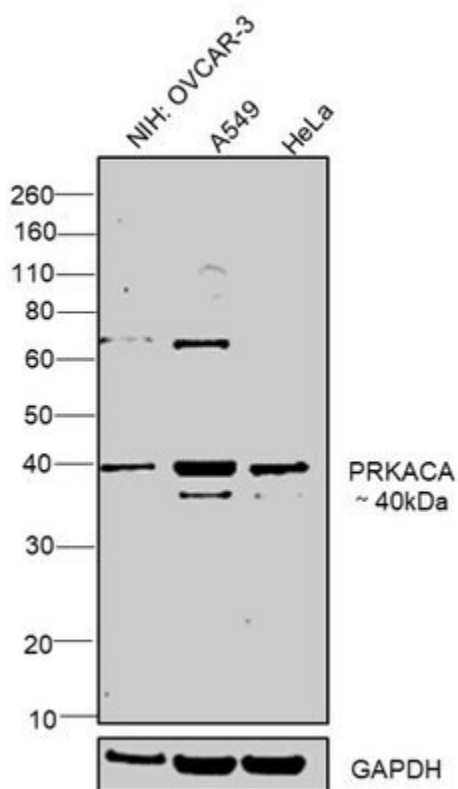


PKA alpha Antibody (PA5-21842) in ICC/IF

Immunofluorescent analysis of PRKACA in paraformaldehyde-fixed HeLa cells using a PRKACA polyclonal antibody (Product # PA5-21842) (Green) at a 1:500 dilution. Alpha-tubulin filaments were labeled with Product # PA5-29281 (Red) at a 1:2000.

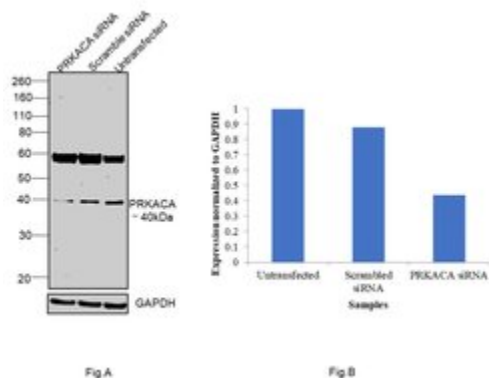
PKA alpha Antibody (PA5-21842) in WB

Western blot was performed using anti-PKA alpha Polyclonal Antibody (Product # PA5-21842) and a 40 kDa band corresponding to PRKACA was observed across cell lines tested along with an uncharacterized band at ~70kDa. Whole cell extracts (30 µg lysate) of NIH: OVCAR-3 (Lane 1), A549 (Lane 2) and HeLa (Lane 3) were electrophoresed using NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). 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 (1:500 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



PKA alpha Antibody (PA5-21842) in WB

Knockdown of PRKACA was achieved by transfecting NIH: OVCAR-3 with PRKACA specific siRNAs (Silencer® select Product # s8587, s8586). Western blot analysis (Fig. a) was performed using modified whole cell extracts (1% SDS) from the PRKACA knockdown cells (Lane 1), non-specific scrambled siRNA transfected cells (Lane 2) and untransfected cells (Lane 3). The blot was probed with PKA alpha Polyclonal Antibody (Product # PA5-21842, 1:1000 dilution) and Goat anti-Rabbit IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 0.25µg/ml, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Loss of signal upon siRNA mediated knock down confirms that antibody is specific to PRKACA. An uncharacterized band was observed at ~60 kDa.



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