

# 14-3-3 zeta Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 1 and 229 of Human 14-3-3 zeta
Form	Liquid
Concentration	0.4 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_2544793

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	Assay-Dependent	-

## Product Specific Information

Recommended positive controls: 293T, A431, H1299, HeLaS3, HepG2, Molt-4, Raji, NIH-3T3.

Predicted reactivity: Mouse (99%), Rat (99%), Xenopus laevis (89%), Pig (99%), Chicken (99%), Sheep (99%), Rhesus Monkey (100%), Bovine (100%).

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

Product Images For 14-3-3 zeta Polyclonal Antibody

14-3-3 zeta Antibody (PA5-27317) in WB

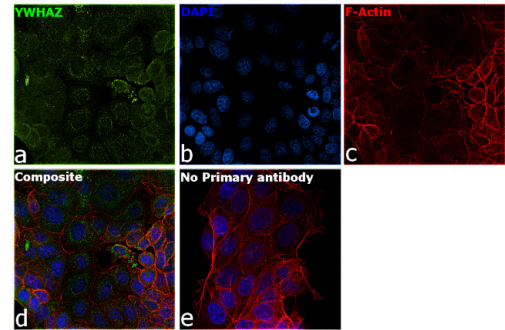
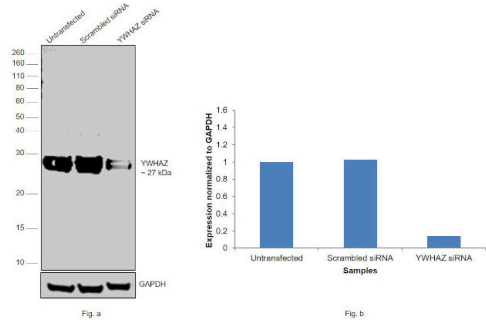
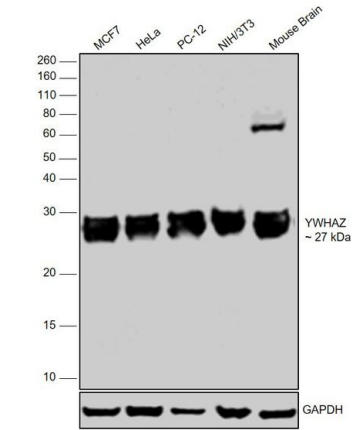
Western blot was performed using Anti-14-3-3 zeta Polyclonal Antibody (Product # PA5-27317) and a 27 kDa band corresponding to YWHAZ was observed across all the cell lines and tissues tested. Whole cell extracts (25 µg lysate) of MCF7 (Lane 1), HeLa (Lane 2), PC-12 (Lane 3), NIH/3T3 (Lane 4) and tissue extracts of Mouse Brain (Lane 5) were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX). 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 (1:2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), 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).

14-3-3 zeta Antibody (PA5-27317)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with YWHAZ siRNA and decrease in signal intensity was observed in western blot application using Anti-14-3-3 zeta Polyclonal Antibody (Product # PA5-27317). {KD}

14-3-3 zeta Antibody (PA5-27317) in ICC/IF

Immunofluorescence analysis of YWHAZ was performed using 70% confluent log phase MCF7 cells. The cells were fixed with 4% Paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 10 minutes at room temperature. The cells were labeled with 14-3-3 zeta Polyclonal Antibody (Product # PA5-27317) at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32731, 1:2000 dilution) 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 endoplasmic reticulum like localization of YWHAZ. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (1)

<div>Heliyon</div> <div>14-3-3 negatively regulates mitochondrial biogenesis in GBM residual cells.</div> <div>"Published figure using 14-3-3 zeta polyclonal antibody (Product # PA5-27317) in Western Blot"</div> <div>Authors: Rajendra J,Ghorai A,Dutt S</div>	<div>Year</div> <div>2021</div>
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