

14-3-3 beta Polyclonal Antibody

Product Details

Size	100 µL
Species Reactivity	Rat
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the C-terminal region of rat YWHAB conjugated to KLH
Form	Liquid
Purification	Affinity chromatography
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol
Contains	no preservative
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2218098

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunocytochemistry (ICC/IF)	1:100	-

Product Specific Information

This antibody is predicted to react with bovine, canine, chicken, human, mouse, non-human primate, Xenopus and zebrafish based on 100% sequence homology.

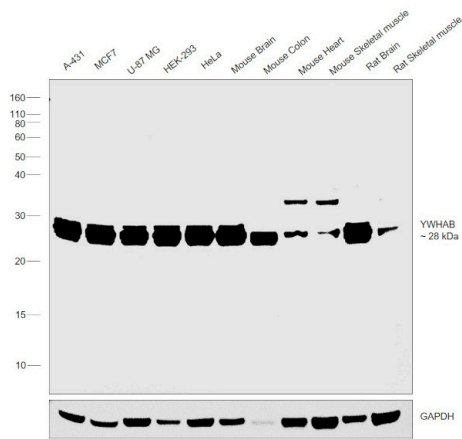
This antibody is specific for the ~29 kDa 14-3-3 protein. Immunolabeling is blocked by preadsorption of the antibody with the protein used to generate the antibody.

Not recommended for use in paraffin sections.

Product Images For 14-3-3 beta Polyclonal Antibody

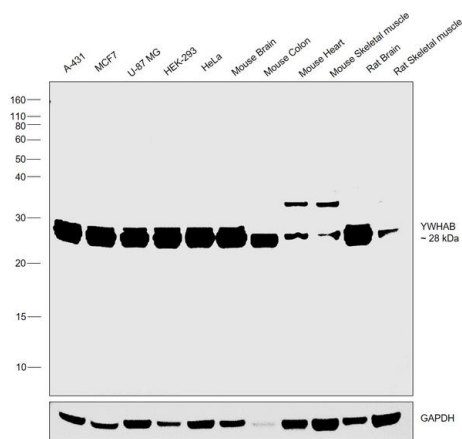
14-3-3 beta Antibody (PA1-4647)

Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue panel owing to their inherent genetic constitution. Relative expression of 14-3-3 beta protein (YWHAB) was observed in mouse brain and Rat brain in comparison to mouse skeletal muscle and rat skeletal muscle using product (Product # PA1-4647) in western blot. {RE}



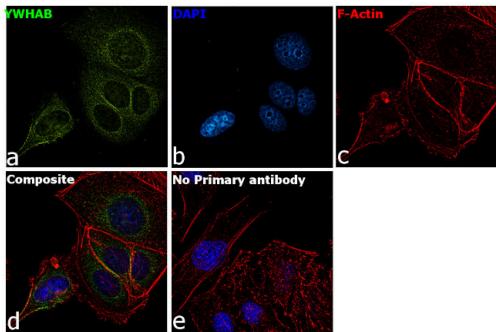
14-3-3 beta Antibody (PA1-4647) in WB

Western blot was performed using Anti-14-3-3 beta protein (YWHAB) Polyclonal Antibody (Product # PA1-4647) on membrane enriched cell extracts (30 µg lysate) of A431 (Lane 1), MCF7 (Lane 2), U-87 MG (Lane 3), HEK-293 (Lane 4), HeLa (Lane 5), Mouse brain (Lane 6), Mouse colon (Lane 7), Mouse heart (Lane 8), Mouse skeletal muscle (Lane 9), Rat brain (Lane 10) and Rat skeletal muscle (Lane 11) and 28 kDa band corresponding to 14-3-3 beta protein was observed across the samples tested. 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 (1:1,000 dilution) and detected by Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg /mL, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



14-3-3 beta Antibody (PA1-4647) in ICC/IF

Immunofluorescence analysis of YWHAB 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 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with 14-3-3 beta Polyclonal Antibody (Product # PA1-4647) at 1:100 dilution in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant 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 ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415). Panel d represents the merged image showing Membrane, Cytoplasm localization. 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)

<p>The Journal of neuroscience : the official journal of the Society for Neuroscience</p> <p>A proteomic analysis reveals the interaction of GluK1 ionotropic kainate receptor subunits with Go proteins.</p> <p>"PA1-4647 was used in western blot to determine how kainate receptors activate G-proteins"</p> <p>Authors: Rutkowska-Wlodarczyk I,Aller MI,Valbuena S,Bologna JC,Prézeau L,Lerma J</p>	<p>Year 2015</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>
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