

## Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband™ (monoclonal, 6G5)

Catalog Number: M01141

### About YWHAZ

14-3-3 protein zeta/delta (14-3-3zeta) is a protein that in humans is encoded by the YWHAZ gene on chromosome 8. This gene product belongs to the 14-3-3 family of proteins which mediate signal transduction by binding to phosphoserine-containing proteins. This highly conserved protein family is found in both plants and mammals, and this protein is 99% identical to the mouse, rat and sheep orthologs. The encoded protein interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Several transcript variants that differ in the 5' UTR but that encode the same protein have been identified for this gene.

### Overview

Product Name	Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband™ (monoclonal, 6G5)
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband™ (monoclonal, 6G5) catalog # M01141. Tested in Flow Cytometry, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	Flow Cytometry, WB
Clonality	Monoclonal 6G5
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P63104

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human 14-3-3 zeta/delta, which shares 97.8% amino acid (aa) sequence identity with both mouse and rat 14-3-3 zeta/delta.
Predicted Reactive Species	Hepatitis Virus
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2b
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blot, 0.1-0.5ug/ml, Human, Mouse, Monkey, Rat</p> <p>Flow Cytometry, 1-3ug/1x10<sup>6</sup> cells, Human</p>

## Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband™ (monoclonal, 6G5) (M01141) Images

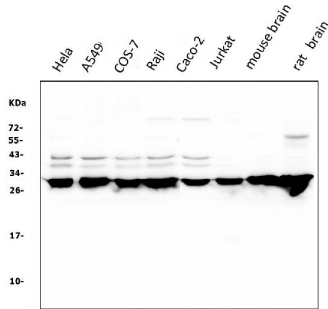


Figure 1. Western blot analysis of 14-3-3 zeta/delta using anti-14-3-3 zeta/delta antibody (M01141). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates;  
Lane 2: human A549 whole cell lysates;  
Lane 3: monkey COS-7 whole cell lysates;  
Lane 4: human Raji whole cell lysates;  
Lane 5: human Caco-2 whole cell lysates;  
Lane 6: human Jurkat whole cell lysates;  
Lane 7: mouse brain tissue lysates;  
Lane 8: rat brain tissue lysates

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-14-3-3 zeta/delta antigen affinity purified monoclonal antibody (Catalog # M01141) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for 14-3-3 zeta/delta at approximately 28KD. The expected band size for 14-3-3 zeta/delta is at 28KD.

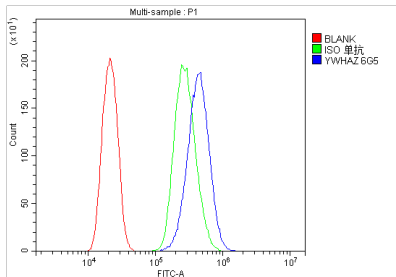


Figure 2. Flow Cytometry analysis of PC-3 cells using anti-14-3-3 zeta/delta antibody (M01141). Overlay histogram showing PC-3 cells stained with M01141 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-14-3-3 zeta/delta Antibody (M01141, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

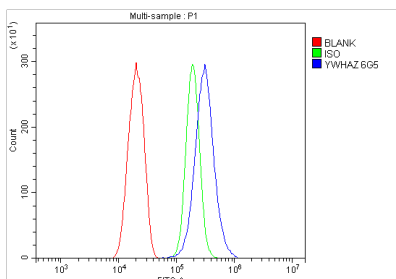


Figure 3. Flow Cytometry analysis of SiHa cells using anti-14-3-3 zeta/delta antibody (M01141). Overlay histogram showing SiHa cells stained with M01141 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-14-3-3 zeta/delta Antibody (M01141, 1ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126, 5-10ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG (1ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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