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Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband® (monoclonal, 6H7)

Catalog Number: M01141-1

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.

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Overview

Product Name	Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband® (monoclonal, 6H7)
Reactive Species	Human, Monkey, Mouse, Rat
Description	Boster Bio Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband® (monoclonal, 6H7) catalog # M01141-1. Tested in WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Monoclonal 6H7
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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

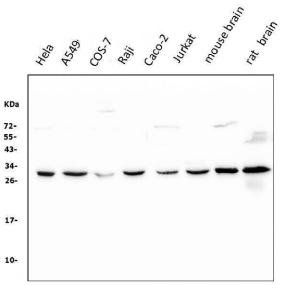
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human 14-3-3 zeta/delta, which shares 97.8% amino acid (aa) sequence identity with both mouse and rat 14-3-3 zeta/delta.

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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 IgG1
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Monkey, Rat

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Anti-14-3-3 zeta/delta/YWHAZ Antibody Picoband® (monoclonal, 6H7) (M01141-1) Images



Western blot analysis of 14-3-3 zeta/delta using anti-14-3-3 zeta/delta antibody (M01141-1). 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: huamn Caco-2 whole cell lysates; Lane 6: huamn 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 # M01141-1) 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.

Anti-14-3-3 zeta/delta/YWHAZ Antibody (monoclonal, 6H7)

For Research Use Only. Not for use in diagnostic procedures.