

Anti-GADD34/Ppp1r15a Antibody Picoband®

Catalog Number: A02394-4

About Ppp1r15a

Protein phosphatase 1 regulatory subunit 15A also known as growth arrest and DNA damage-inducible protein GADD34 is a protein that in humans is encoded by the PPP1R15A gene. Enables protein phosphatase binding activity and protein phosphatase regulator activity. Involved in several processes, including peptidyl-serine dephosphorylation; regulation of gene expression; and regulation of protein modification process. Acts upstream of or within endoplasmic reticulum unfolded protein response. Predicted to be located in several cellular components, including Golgi apparatus; cytosol; and mitochondrion. Predicted to be part of protein phosphatase type 1 complex. Predicted to be active in endoplasmic reticulum. Is expressed in several structures, including central nervous system; genitourinary system; gut; hemolymphoid system gland; and liver. Used to study thalassemia. Orthologous to human PPP1R15A (protein phosphatase 1 regulatory subunit 15A).

Overview

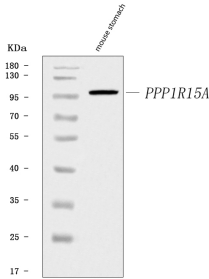
Product Name	Anti-GADD34/Ppp1r15a Antibody Picoband®
Reactive Species	Mouse
Description	Boster Bio Anti-GADD34/Ppp1r15a Antibody Picoband® catalog # A02394-4. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that 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	ELISA, Flow Cytometry, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	P17564

Technical Details

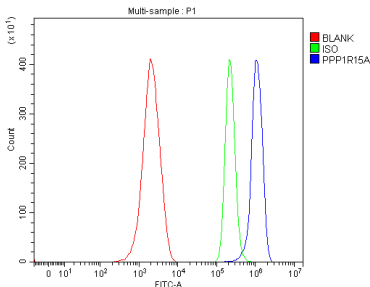
Immunogen	E.coli-derived mouse GADD34/Ppp1r15a recombinant protein (Position: R14-R572).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 µg/ml, Mouse Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells, Mouse ELISA, 0.1-0.5 µg/ml, -

Anti-GADD34/Ppp1r15a Antibody Picoband® (A02394-4) Images



Western blot analysis of GADD34/Ppp1r15a using anti-GADD34/Ppp1r15a antibody (A02394-4). 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 30 ug of sample under reducing conditions. Lane 1: mouse stomach tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GADD34/Ppp1r15a antigen affinity purified polyclonal antibody (Catalog # A02394-4) 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-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GADD34/Ppp1r15a at approximately 100 kDa. The expected band size for GADD34/Ppp1r15a is at 73 kDa.



Flow Cytometry analysis of ANA-1 cells using anti-GADD34/Ppp1r15a antibody (A02394-4). Overlay histogram showing ANA-1 cells stained with A02394-4 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GADD34/Ppp1r15a Antibody (A02394-4, 1 ug/1x10⁶ cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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