BOSTER BIOLOGICAL TECHNOLOGY
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Anti-GADD45G Antibody Picoband®

Catalog Number: A04681-1

About GADD45G

Growth arrest and DNA-damage-inducible protein GADD45 gamma is a protein that in humans is encoded by the GADD45G gene on chromosome 9. This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The GADD45G is highly expressed in placenta.

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Overview

Product Name	Anti-GADD45G Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GADD45G Antibody Picoband® catalog # A04681-1. Tested in WB applications. This antibody reacts with Human, 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	Polyclonal
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	Rabbit
Uniprot ID	O95257

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GADD45G, which shares 94.4% and 100% amino acid (aa) sequence identity with mouse and rat GADD45G, respectively.

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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 ug/ml.
Suggested Dilutions	Western blot,0.1-0.5ug/ml

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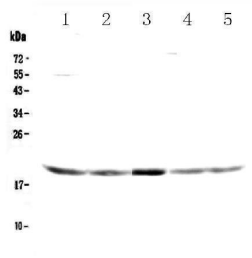
Anti-GADD45G Antibody Picoband® (A04681-1) Images



Western blot analysis of GADD45G using anti-GADD45G antibody (A04681-1). 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: rat brain tissue lysates,Lane 2: rat heart tissue lysates,Lane 3: rat testis tissue lysates,Lane 4: rat skeletal muscle tissue lysates,Lane 5: mouse brain tissue lysates,Lane 6: mouse heart tissue lysates,Lane 7: mouse testis tissue lysates,Lane 8: mouse skeletal muscle 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 rabbit anti-GADD45G antigen affinity purified polyclonal antibody (Catalog # A04681-1) 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-rabbit 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 # EK1002) with Tanon 5200 system. A specific band was detected for GADD45G at approximately 19KD. The expected band size for GADD45G is at 17KD.



Western blot analysis of GADD45G using anti-GADD45G antibody (A04681-1). 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 placenta tissue lysates,Lane 3: human SW620 whole cell lysates,Lane 4: human A549 whole cell lysates,Lane 5: mouse NIH3T3 whole cell 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 rabbit anti-GADD45G antigen affinity purified polyclonal antibody (Catalog # A04681-1) 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-rabbit 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 # EK1002) with Tanon 5200 system. A specific band was detected for GADD45G at approximately 19KD. The expected band size for GADD45G is at 17KD.

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