

Anti-GADD45A Antibody Picoband®

Catalog Number: PB9945

About GADD45A

Growth arrest and DNA-damage-inducible protein GADD45 alpha (GADD45A) is a protein that in humans is encoded by the GADD45A gene. 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. It is located on 1p34-p12. Sequence analysis of human and hamster cDNA clones demonstrated that the gene has been highly conserved and encodes a novel 165-amino acid polypeptide. Northern blot analysis detected moderate expression of a 1.4-kb GADD45A transcript in heart, skeletal muscle, and kidney, with little or no expression in brain, placenta, lung, liver, and pancreas. In addition, Gadd45a promotes epigenetic gene activation by repair-mediated DNA demethylation.

Overview

Product Name	Anti-GADD45A Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-GADD45A Antibody Picoband® catalog # PB9945. Tested in WB applications. This antibody reacts with Human. 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 antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , and 0.05 mg Na ₃ N. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P24522

Technical Details

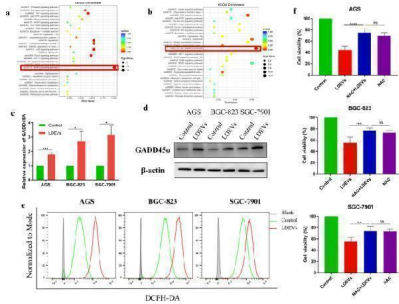
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GADD45A, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	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.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human

Anti-GADD45A Antibody Picoband® (PB9945) Images



Western blot analysis of GADD45A using anti-GADD45A antibody (PB9945). 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: MCF-7 whole cell 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-GADD45A antigen affinity purified polyclonal antibody (Catalog # PB9945) 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 GADD45A at approximately 19 kDa. The expected band size for GADD45A is at 18 kDa.



The mechanism behind the LDEVs effect on gastric cancer cells. a) KEGG pathway analysis of SGC-7901 cells after LDEVs treatment for 6 h and b) 12 h. The highest KEGG pathways were labeled by red line respectively. c) RT-PCR assay the relative expression of GADD45A in AGS, BGC-823, and SGC-7901 cells treated with LDEVs; d) Western blot analysis of GADD45A protein expression in three gastric cancer cells; e) Flow cytometry assay the intracellular ROS levels using DCFH-DA; f) Cell viability of control group, LDEVs group, NAC + LDEVs group, and NAC groups respectively (* p

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