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Anti-GADD45A Picoband Antibody

Catalog # ABO12630

Specification

Anti-GADD45A Picoband Antibody - Product Information

Application	**WB**
Primary Accession	P24522
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Growth arrest and DNA damage-inducible protein GADD45 alpha(GADD45A) detection. Tested with WB in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GADD45A Picoband Antibody - Additional Information

Gene ID 1647

Other Names
Growth arrest and DNA damage-inducible protein GADD45 alpha, DNA damage-inducible transcript 1 protein, DDIT-1, GADD45A, DDIT1, GADD45

Calculated MW
18336 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Nucleus .

Protein Name
Growth arrest and DNA damage-inducible protein GADD45 alpha

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human GADD45A (125-165aa VLVTNPHSSQWKDPALSQLICFCRESRYMDQWVPVINLP ER), identical to the related mouse and rat sequences.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-GADD45A Picoband Antibody - Protein Information

Name GADD45A

Synonyms DDIT1, GADD45

Function
In T-cells, functions as a regulator of p38 MAPKs by inhibiting p88 phosphorylation and activity (By similarity). Might affect PCNA interaction with some CDK (cell division protein kinase) complexes; stimulates DNA excision repair in vitro and inhibits entry of cells into S phase.

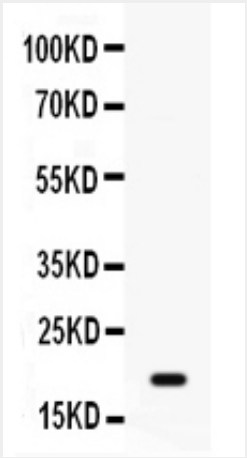
Cellular Location
Nucleus.

Anti-GADD45A Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-GADD45A Picoband Antibody - Images



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Western blot analysis of GADD45A expression in MCF-7 whole cell lysates (lane 1). GADD45A at 19KD was detected using rabbit anti-GADD45A Antigen Affinity purified polyclonal antibody (Catalog # ABO12630) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-GADD45A Picoband Antibody - Background

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.