

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 reconstitution, 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.

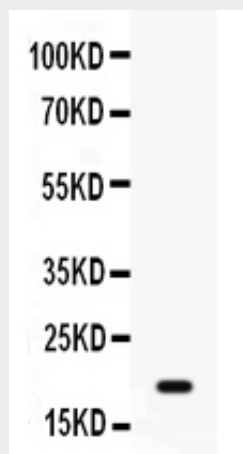
Cellular Location

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 Cytometry](#)
- [Cell Culture](#)

Anti-GADD45A Picoband Antibody - Images

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 µg/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.