

**Anti-GADD45A Picoband Antibody**  
Catalog # ABO12630**Specification**

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**Anti-GADD45A Picoband Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P24522</a>
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<br>

**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 Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**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

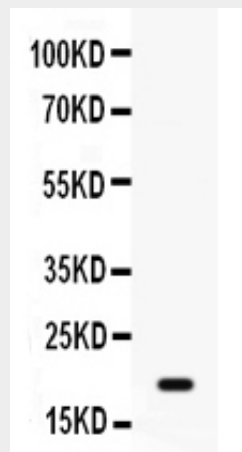
Nucleus.

## 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.