

Anti-GADD45A Picoband Antibody

Catalog # ABO12630

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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Nucleus .
Source	Eukaryota
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 VLVTPHSSQWKDPALSQILCFRESRYMDQWVPVINLP 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.

Protein Information

Name	GADD45A
Synonyms	DDIT1, GADD45
Function	In T-cells, functions as a regulator of p38 MAPKs by inhibiting p38 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.

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.

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 .

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