

Basic Information

Product Name	Anti-GADD45A Antibody
Gene Name	GADD45A
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
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.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	18KD
Dilution Ratios	Western blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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.

Selected Validation Data



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 # PB0989) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).