

## Rabbit GADD45A Polyclonal Antibody | anti-GADD45A antibody

GADD45A Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA326387 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

GADD45A; Polyclonal Antibody; GADD45A Antibody; DDIT 1; DDIT-1; DDIT1; DNA damage inducible transcript 1; DNA damage-inducible transcript 1 protein; GA45A\_HUMAN; GADD45; Growth arrest and DNA damage inducible 45 alpha; Growth arrest and DNA damage inducible alpha; Growth arrest and DNA damage-inducible protein GADD45 alpha; anti-GADD45A antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                             |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                      |
| Reactivity                                        | Human, Mouse, Rat                                                                                                           |
| Clonality                                         | Polyclonal                                                                                                                  |
| Isotype                                           | IgG                                                                                                                         |
| Specificity                                       | GADD45A antibody detects endogenous levels of total GADD45A                                                                 |
| Purity/Purification                               | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                               |
| Form/Format                                       | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                               |
| Concentration                                     | 1mg/ml (varies by lot)                                                                                                      |
| Sequence Length                                   | 131                                                                                                                         |
| Applicable Applications for anti-GADD45A antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                    |
| Immunogen                                         | A synthesized peptide derived from human GADD45A                                                                            |
| Subcellular Location                              | Nucleus                                                                                                                     |
| Tissue Specificity                                | By UV irradiation, X-rays, growth arrest and alkylating agents. The induction is mediated by some kinase(s) other than PKC. |
| Predicted Cross Reactivity                        | <b>Pig, Bovine, Sheep, Rabbit, Dog</b>                                                                                      |
| Similarity                                        | Pig (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (100%)                                                          |
| Conjugation                                       | Unconjugated                                                                                                                |
| Preparation and Storage                           | Store at -20 degree C. Stable for 12 months from date of receipt.                                                           |

IMAGES



IF (Immunofluorescence)

AAA326387 staining HepG2 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



IHC (Immunohistochemistry)

AAA326387 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Mouse liver tissue lysates, using GADD45A Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GADD45A antibody

Description: 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. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The DNA damage-induced transcription of this gene is mediated by both p53-dependent and-independent mechanisms. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

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.

Subunit Structure: Interacts with MAPK14 (By similarity). Predominantly monomeric but also forms dimers and other oligomers as concentration increases. Interacts with GADD45GIP1. Interacts weakly with PCNA. Interacts with AURKA, likely to compete with dimerization.

Similarity: Belongs to the GADD45 family.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 315075323                                                             |
| NCBI GeneID                      | 1647                                                                  |
| NCBI Accession #                 | NP_001186670.1                                                        |
| NCBI GenBank Nucleotide #        | NM_001199741.1                                                        |
| UniProt Accession #              | P24522; Q5TCA7; Q5TCA8                                                |
| Molecular Weight                 | Observed: 18 kDa<br>Predicted: 19 kDa                                 |
| NCBI Official Full Name          | growth arrest and DNA damage-inducible protein GADD45 alpha isoform 2 |
| NCBI Official Synonym Full Names | growth arrest and DNA damage inducible alpha                          |
| NCBI Official Symbol             | GADD45A                                                               |
| NCBI Official Synonym Symbols    | DDIT1; GADD45                                                         |
| NCBI Protein Information         | growth arrest and DNA damage-inducible protein GADD45 alpha           |
| UniProt Protein Name             | Growth arrest and DNA damage-inducible protein GADD45 alpha           |
| UniProt Gene Name                | GADD45A                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/gadd45a-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326387>