

**GADD45A Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2785A****Specification**

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**GADD45A Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">P24522</a>
Other Accession	<a href="#">Q3ZBN6</a>
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	18336
Antigen Region	1-30

**GADD45A Antibody (N-term) - 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

**Target/Specificity**

This GADD45A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human GADD45A.

**Dilution**

WB~~1:1000  
IHC-P~~1:100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GADD45A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GADD45A Antibody (N-term) - 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**

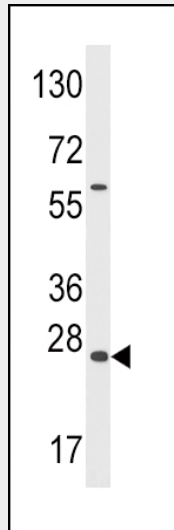
Nucleus.

**GADD45A Antibody (N-term) - Protocols**

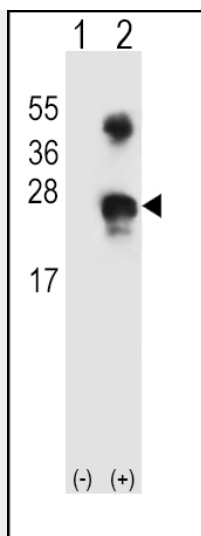
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

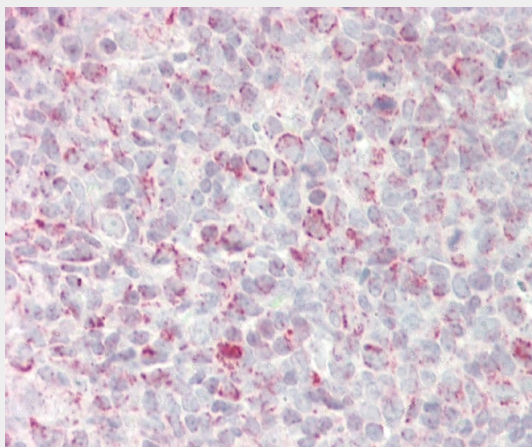
**GADD45A Antibody (N-term) - Images**



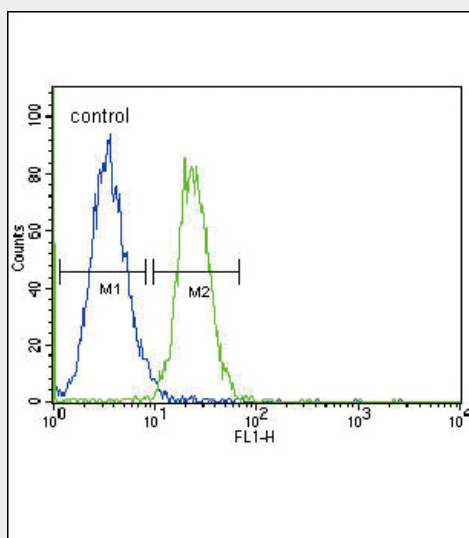
Western blot analysis of anti-GADD45A Antibody (N-term) (Cat.#AP2785a) in Y79 cell line lysates (35ug/lane). GADD45A (arrow) was detected using the purified Pab.



Western blot analysis of GADD45A (arrow) using rabbit polyclonal GADD45A Antibody (N-term) (Cat.#AP2785a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GADD45A gene.



Formalin-fixed and paraffin-embedded H. tonsil tissue reacted with GADD45A Antibody (N-term) (Cat.#AP2785a).



GADD45A Antibody (N-term) (Cat. #AP2785a) flow cytometric analysis of K562 cells (right

histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **GADD45A Antibody (N-term) - Background**

GADD45A responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The GADD45A 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 DNA damage-induced transcription of this gene is mediated by both p53-dependent and -independent mechanisms.

#### **GADD45A Antibody (N-term) - References**

Li,L.S., J. Biol. Chem. 283 (31), 21394-21403 (2008) Al-Romaih,K., Neoplasia 10 (5), 471-480 (2008) Zhu,Q.S., Cancer Res. 68 (8), 2895-2903 (2008) Kearsey,J.M., Oncogene 11 (9), 1675-1683 (1995)