

**GADD45A Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2785a****Specification**

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**GADD45A Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P24522](#)**GADD45A Antibody (N-term) Blocking Peptide - 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**

The synthetic peptide sequence used to generate the antibody [AP2785a](/products/AP2785a) was selected from the N-term region of human GADD45A. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GADD45A Antibody (N-term) Blocking Peptide - 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.

## **GADD45A Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

## **GADD45A Antibody (N-term) Blocking Peptide - Images**

## **GADD45A Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)