

**GADD45A Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant GADD45A.

Catalog # AT2145a

**Specification**

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**GADD45A Antibody (monoclonal) (M01) - Product Information**

Application	WB
Primary Accession	<a href="#">P24522</a>
Other Accession	<a href="#">BC011757</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	18336

**GADD45A Antibody (monoclonal) (M01) - 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**

GADD45A (AAH11757, 76 a.a. ~ 165 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

GADD45A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

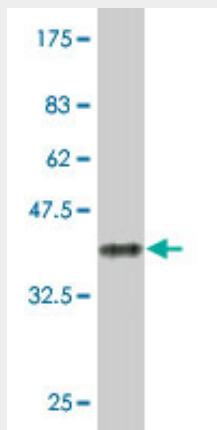
**GADD45A Antibody (monoclonal) (M01) - Protocols**

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

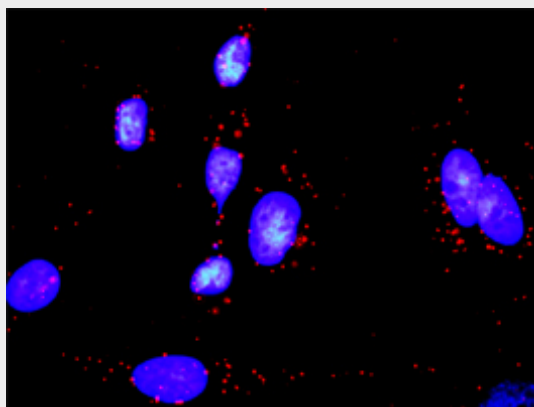
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **GADD45A Antibody (monoclonal) (M01) - Images**



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (35.53 KDa) .



Detection limit for recombinant GST tagged GADD45A is approximately 3ng/ml as a capture antibody.

#### **GADD45A Antibody (monoclonal) (M01) - Background**

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.

#### **GADD45A Antibody (monoclonal) (M01) - References**

1. Inhibition of NF- $\kappa$ B activation sensitizes U937 cells to 3-azido-3-deoxythymidine induced apoptosis. Matteucci C, Minutolo A, Balestrieri E, Marino-Merlo F, Bramanti P, Garaci E, Macchi B, Mastino A. *Cell Death and Disease* (2010) 1, e81; doi:10.1038/cddis.2010.582. Decitabine-Induced Demethylation of 5'CpG Island in GADD45A Leads to Apoptosis in Osteosarcoma Cells. Al-Romaih K, Sadikovic B, Yoshimoto M, Wang Y, Zielenska M, Squire JA. *Neoplasia*. 2008 May;10(5):471-80.