

# GADD45A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant GADD45A.

Catalog # AT2145a

## Product Information

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Application	WB
Primary Accession	<a href="#">P24522</a>
Other Accession	<a href="#">BC011757</a>
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	3D12
Calculated MW	18336

## Additional Information

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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.

## Background

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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.

## References

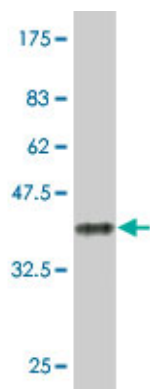
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1. Inhibition of NF- $\kappa$ B activation sensitizes U937 cells to 3-azido-3-deoxythymidine induced

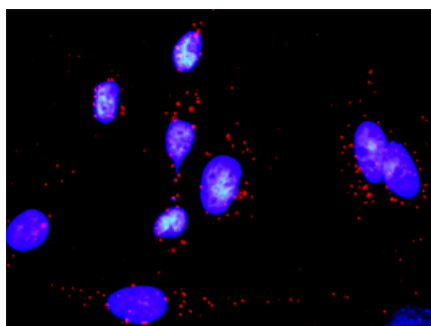
apoptosis. Matteucci C, Minutolo A, Balestrieri E, Marino-Merlo F, Bramanti P, Garaci E, Macchi B, Mastino A. Cell Death and Disease (2010) 1, e81; doi:10.1038/cddis.2010.582. Decitabine-Induced Demethylation of 5'CpG Island in GADD45A Leads to Apoptosis in Osteosarcoma Cells. Al-Romaih K, Sadikovic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

## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.