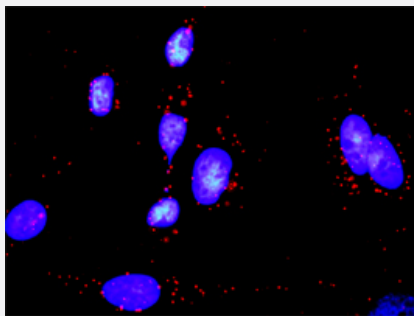


GADD45A monoclonal antibody (M01), clone 3D12

Catalog # H00001647-M01

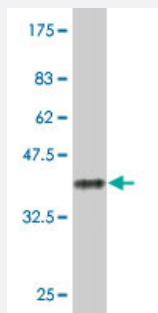
Size 100 ug

Applications



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MAP2K6 and GADD45A. HeLa cells were stained with anti-MAP2K6 rabbit purified polyclonal 1:1200 and anti-GADD45A mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (35.53 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant GADD45A.
Immunogen	GADD45A (AAH11757, 76 a.a. ~ 165 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TLIQAFCCENDINLRVSNPGR LAELLLLETDAGPAASEGAEQPPDLHCVLVTNPHSSQWKDPALS QLICFCRESRYMDQWVPVINLPER
Host	Mouse
Reactivity	Human
Isotype	IgG1 kappa

Quality Control Testing

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

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

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

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MAP2K6 and GADD45A. HeLa cells were stained with anti-MAP2K6 rabbit purified polyclonal 1:1200 and anti-GADD45A mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — GADD45A

Entrez GeneID

[1647](#)

GeneBank Accession#

[BC011757](#)

Protein Accession#

[AAH11757](#)

Gene Name

GADD45A

Gene Alias

DDIT1, GADD45

Gene Description

growth arrest and DNA-damage-inducible, alpha

Omim ID

[126335](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene is a member of a group of genes whose transcript levels are increased following stress ful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by thi s gene responds to environmental stresses by mediating activation of the p38/JNK pathway via M TK1/MEKK4 kinase. The DNA damage-induced transcription of this gene is mediated by both p5 3-dependent and -independent mechanisms. [provided by RefSeq

Other Designations

DNA damage-inducible transcript 1|DNA damage-inducible transcript-1|DNA-damage-inducible transcript 1|OTTHUMP00000010979|growth arrest and DNA-damage-inducible 45 alpha

Publication Reference

- [Inhibition of NF-kB 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 & Disease 2010 Oct; 1:e81.

Application: WB-Ce, Human, U937 cells

- [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.

Application: IHC-P, WB, Human, MG63, U2OS cells , Xenograft tissue and pelleted paraffin-embedded formalin-fixed HeLa cell sections

Pathway

- [Cell cycle](#)
- [MAPK signaling pathway](#)
- [p53 signaling pathway](#)

Disease

- [Ataxia telangiectasia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Chronic Disease](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)

- [Microsatellite Instability](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)