

Product datasheet for **CF507380**

GADD45A Mouse Monoclonal Antibody [Clone ID: OTI2B7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2B7
Applications:	WB
Recommended Dilution:	WB 1:4000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GADD45A(NP_001915) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	18.2 kDa
Gene Name:	Homo sapiens growth arrest and DNA damage inducible alpha (GADD45A), transcript variant 1, mRNA.
Database Link:	NP_001915 Entrez Gene 13197 Mouse Entrez Gene 25112 Rat Entrez Gene 1647 Human P24522



[View online »](#)

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. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Synonyms:

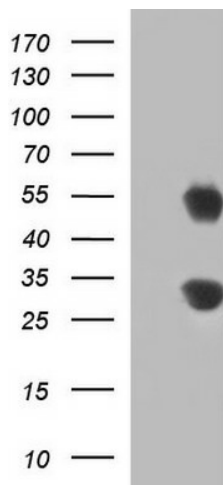
DDIT1; GADD45

Protein Families:

Druggable Genome, Stem cell - Pluripotency

Protein Pathways:

Cell cycle, MAPK signaling pathway, p53 signaling pathway

Product images:

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GADD45A ([RC204005], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GADD45A. Positive lysates [LY419659] (100ug) and [LC419659] (20ug) can be purchased separately from OriGene.