

Product datasheet for **CF505489**

GADD45G Mouse Monoclonal Antibody [Clone ID: OT1E4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OT1E4
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GADD45G(NP_006696) 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:	16.9 kDa
Gene Name:	growth arrest and DNA damage inducible gamma
Database Link:	NP_006696 Entrez Gene 23882 Mouse Entrez Gene 291005 Rat Entrez Gene 10912 Human O95257



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Background:

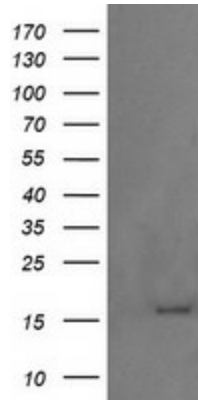
This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The GADD45G is highly expressed in placenta. [provided by RefSeq, Jul 2008]

Synonyms:

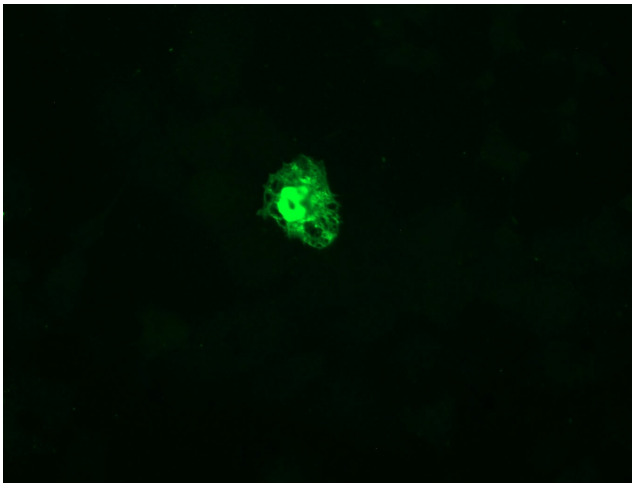
CR6; DDIT2; GADD45gamma; GRP17

Protein Pathways:

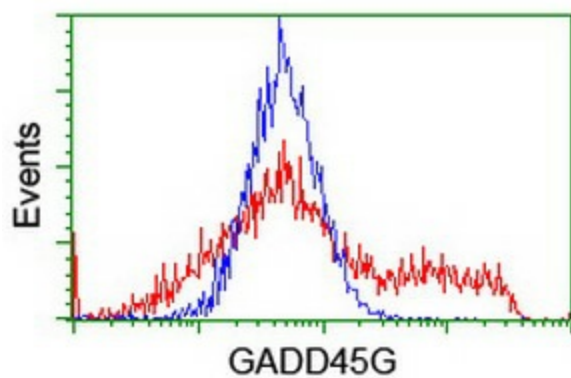
Cell cycle, MAPK signaling pathway, p53 signaling pathway

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GADD45G ([RC201364], 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-GADD45G. Positive lysates [LY416476] (100ug) and [LC416476] (20ug) can be purchased separately from OriGene.



Anti-GADD45G mouse monoclonal antibody ([TA505489]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GADD45G ([RC201364]).



HEK293T cells transfected with either [RC201364] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-GADD45G antibody ([TA505489]), and then analyzed by flow cytometry.