

**GADD45α mouse mAb**

<b>Catalog No :</b>	YM1420
<b>Reactivity :</b>	Transfected
<b>Applications :</b>	WB
<b>Target :</b>	GADD45α
<b>Fields :</b>	>>MAPK signaling pathway;>>NF-kappa B signaling pathway;>>FoxO signaling pathway;>>Cell cycle;>>p53 signaling pathway;>>Apoptosis;>>Cellular senescence;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Transcriptional misregulation in cancer;>>Colorectal cancer;>>Pancreatic cancer;>>Endometrial cancer;>>Glioma;>>Thyroid cancer;>>Basal cell carcinoma;>>Melanoma;>>Chronic myeloid leukemia;>>Small cell lung cancer;>>Non-small cell lung cancer;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer
<b>Gene Name :</b>	<u>gadd45a</u>
<b>Human Gene Id :</b>	1647
<b>Human Swiss Prot No :</b>	P24522
<b>Mouse Swiss Prot No :</b>	P48316
<b>Immunogen :</b>	Purified recombinant human GADD45 α protein expressed in E.coli
<b>Specificity :</b>	Transfected Only.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb dilution 1:1000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.  <u>1 mg/ml</u>

**Storage & Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 22kD

**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DNA;p53;

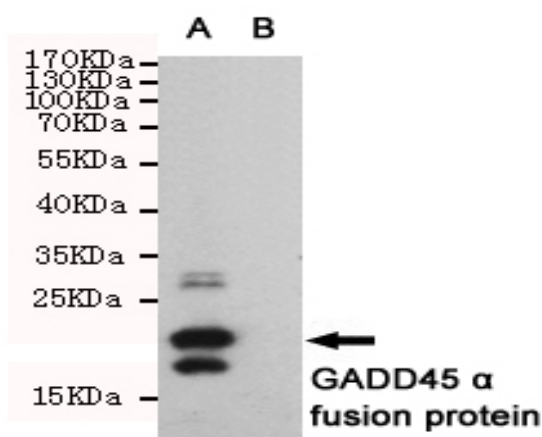
**Background :** This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via 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],

**Function :** disease:Induction of GADD45 in ataxia telangiectasia cells is abnormal.,function:Binds to proliferating cell nuclear antigen. Might affect PCNA interaction with some CDK (cell division protein kinase) complexes; stimulates DNA excision repair in vitro and inhibits entry of cells into S phase.,induction:By UV radiation, X-rays, growth arrest and alkylating agents. The induction is mediate by some kinase(s) other than PKC.,similarity:Belongs to the GADD45 family.,subunit:Interacts with GADD45GIP1.,

**Subcellular Location :** Nucleus .

**Expression :** Bronchial epithelial cells treated with 20 uM arsenic for 4

## Products Images



Western blot detection of GADD45  $\alpha$  in CHO-K1 cell lysate(B) and CHO-K1 transfected by GADD45  $\alpha$  His fusion protein(A) cell lysate using GADD45  $\alpha$  mouse mAb (1:1000 diluted). Predicted band size:22KDa. Observed band size:22KDa.