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GADD45A Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2785b

Product Information

Application	WB, FC, E
Primary Accession	P24522
Other Accession	P48317, P48316, P24523, Q3ZBN6
Reactivity	Human
Predicted	Bovine, Hamster, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16521
Calculated MW	18336
Antigen Region	133-165

Additional Information

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	This GADD45A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 133-165 amino acids from the C-terminal region of human GADD45A.
Dilution	WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GADD45A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GADD45A
Synonyms	DDIT1, GADD45

Function	In T-cells, functions as a regulator of p38 MAPKs by inhibiting p88 phosphorylation and activity (By similarity). 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.
Cellular Location	Nucleus.

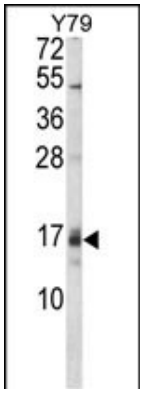
Background

GADD45A responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The GADD45A 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 DNA damage-induced transcription of this gene is mediated by both p53-dependent and -independent mechanisms.

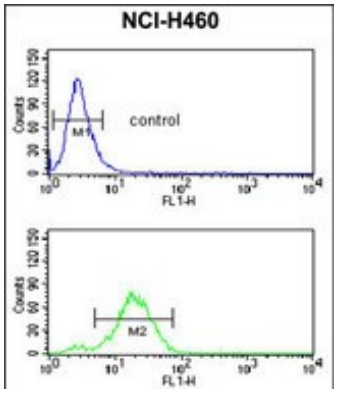
References

Li,L.S., J. Biol. Chem. 283 (31), 21394-21403 (2008)
Al-Romaih,K., Neoplasia 10 (5), 471-480 (2008)
Zhu,Q.S., Cancer Res. 68 (8), 2895-2903 (2008)
Kearsey,J.M., Oncogene 11 (9), 1675-1683 (1995)

Images

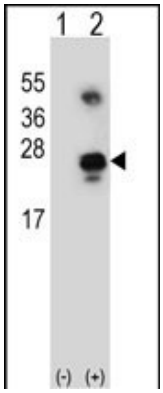


Western blot analysis of GADD45A Antibody (C-term) (Cat. #AP2785b) in Y79 cell line lysates (35ug/lane). GADD45A (arrow) was detected using the purified Pab.



GADD45A Antibody (C-term) (Cat. #AP2785b) flow cytometric analysis of NCI-H460 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western blot analysis of GADD45A (arrow) using rabbit polyclonal GADD45A Antibody (C-term) (Cat. #AP2785b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GADD45A gene.



Citations

- Significance of S100P as a biomarker in diagnosis, prognosis and therapy of opisthorchiasis-associated cholangiocarcinoma.