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GADD45A Rabbit pAb

Catalog # AP97272

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P24522
Other Accession	P24522
Reactivity	Rat, Human, Mouse
Predicted	Pig, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18336
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GADD45
Epitope Specificity	65-165/165
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the GADD45 family.
SUBUNIT	Interacts with MAPK14. Predominantly monomeric but also forms dimers and other oligomers as concentration increases. Interacts with GADD45GIP1. Interacts weakly with PCNA. Interacts with AURKA, likely to compete with dimerization.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	1647
Other Names	DDIT1; GADD45; GA45A_HUMAN; GADD45A; DNA damage-inducible transcript 1 protein (DDIT-1); GA45A_MOUSE; GA45A_RAT; growth arrest and DNA damage inducible alpha; growth arrest and DNA-damage-inducible, alpha
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=3ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.