

GADD45 alpha (D17E8) Rabbit mAb

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	22	Rabbit IgG	#P24522	1647
Product Usage Information	Application					Dilution
	Western Blotting					1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.					
Specificity/Sensitivity	GADD45 alpha Antibody detects endogenous levels of total GADD45 alpha protein.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Asn129 of human GADD45 α.					
Background	GADD45 α, β and γ are an evolutionarily conserved, homologous family of nuclear proteins that function as stress sensors for cellular physiological and environmental damage. GADD45 proteins are required for the activation of the G2/M checkpoint induced by UV radiation or alkylating agents (1). GADD45-induced G2/M checkpoint is regulated through inactivation of Cdc2-cyclin B1 kinase (2). GADD45 forms a complex with p21 and Cdc2, and may serve as core for interaction with other cell cycle regulators (3,4).					
Background References	1. Wang, X.W. et al. (1999) <i>Proc Natl Acad Sci USA</i> 96, 3706-11. 2. Yang, Q. et al. (2000) <i>J Biol Chem</i> 275, 36892-8. 3. Zhao, H. et al. (2000) <i>Exp Cell Res</i> 258, 92-100. 4. Liebermann, D.A. and Hoffman, B. (2008) <i>J Mol Signal</i> 3, 15.					

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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