

Store at -20C  
#4632

# 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:
WB	H M R Mk	Endogenous	22	Rabbit IgG	#P24522	1647

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	GADD45 alpha Antibody detects endogenous levels of total GADD45 alpha protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Asn129 of human GADD45 α.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Wang, X.W. et al. (1999) <i>Proc Natl Acad Sci USA</i> 96, 3706-11.</li> <li>2. Yang, Q. et al. (2000) <i>J Biol Chem</i> 275, 36892-8.</li> <li>3. Zhao, H. et al. (2000) <i>Exp Cell Res</i> 258, 92-100.</li> <li>4. Liebermann, D.A. and Hoffman, B. (2008) <i>J Mol Signal</i> 3, 15.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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