Revision 1

Store at -20C

#4632

GADD45 alpha (D17E8) Rabbit mAb

Cell Signaling
T E C H N O L O G Y®

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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

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) *Proc Natl Acad Sci USA* 96, 3706-11.
2. Yang, Q. et al. (2000) *J Biol Chem* 275, 36892-8.
3. Zhao, H. et al. (2000) *Exp Cell Res* 258, 92-100.
4. Liebermann, D.A. and Hoffman, B. (2008) *J Mol Signal* 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

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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