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#3518

GADD45 α Antibody

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	#P24522	1647

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

GADD45 α Antibody detects endogenous levels of total GADD45 α protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Asp129 of human GADD45 α . Antibodies are purified by protein A and peptide affinity chromatography.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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