For Research Use Only

GADD34 Recombinant antibody

Catalog Number:81250-1-RR

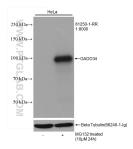


Basic Information	Catalog Number: 81250-1-RR	GenBank Accession Number: BC003067	Purification Method: Protein A purification		
	Size: 100ul , Concentration: 400 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG0578	GeneID (NCBI): 23645	CloneNo.: 4K3		
		UNIPROT ID: O75807 Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 15A	Recommended Dilutions: WB 1:2000-1:16000 IF/ICC 1:50-1:500		
				Calculated MW: 73 kDa	
				Observed MW: 100 kDa	
		Applications	Tested Applications: WB, IF/ICC, ELISA Species Specificity: human, mouse	Positive Cor	ntrols:
					WB : MG132 treated HepG2 cells, MG132 treated NIH/3T3 cells, MG132 treated HeLa cells
NIII/ 513 Cet	is, MOISZ liedled Held Cells				
	numan, mouse	IF/ICC : PC-:	3 cells,		
Background Information	GADD34, also named PPP1R15A, beld activating transcription factor4 (ATF of translation induced by ER stress. It the translation initiation factor eIF2a inducible kinases and facilitating re pathway by promoting dephosphoryl phosphorylation on 'Ser-15'. Starvati	ongs to the PPP1R15 family. GADD34 4) under ER stress, it plays a pivotal ro recruits the serine/threonine-protein lpha, thereby reversing the shut-off o covery of cells from stress. GADD34 d ation of TGFB1 via PP1. It may also p on-induced expression of GADD34 rec in GADD34 KO mice. Molecular weig	can be triggered as a direct target of ole in the recovery of cells from shut-down phosphatase (PP1) to dephosphorylate of protein synthesis initiated by stress- own-regulates the TGF-beta signaling romote apoptosis by inducing TP53 duced mTOR activity and induced th of GADD34 is 100 kDa confirmed in		
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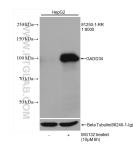
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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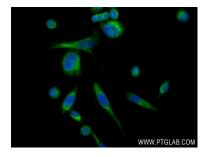
Selected Validation Data



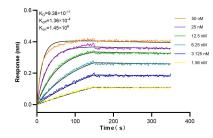
MG132 treated HeLa cells were subjected to SDS PAGE followed by western blot with 81250-1-RR (GADD34 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



MG132 treated HepG2 cells were subjected to SDS PAGE followed by western blot with 81250-1-RR (GADD34 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using GADD34 antibody (81250-1-RR, Clone: 4K3) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 81250-1-RR against Human GADD34 were performed. The affinity constant is 93.8 pM.