For Research Use Only

GADD34 Recombinant antibody, PBS proteintech® Only

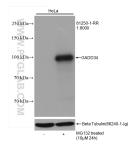
Catalog Number:81250-1-PBS

Basic Information	Catalog Number: 81250-1-PBS	GenBank Accession Number: BC003067	Purification Method: Protein A purification
	Size: 1mg/ml	GenelD (NCBI): 23645	CloneNo.: 4K3
	Source: Rabbit	UNIPROT ID: O75807	
	Isotype: IgG Immunogen Catalog Number: AG0578	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 15A	
		Calculated MW: 73 kDa	
		Observed MW: 100 kDa	
Applications	Tested Applications: WB, IF, Indirect ELISA		
	Species Specificity: Human, Mouse		
Background Information	GADD34, also named PPP1R15A, belongs to the PPP1R15 family. GADD34 can be triggered as a direct target of activating transcription factor4 (ATF4) under ER stress, it plays a pivotal role in the recovery of cells from shut-down of translation induced by ER stress. It recruits the serine/threonine-protein phosphatase (PP1) to dephosphorylate the translation initiation factor eIF2alpha, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress. GADD34 down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 via PP1. It may also promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'. Starvation-induced expression of GADD34 reduced mTOR activity and induced autophagy in wild-type mice, but not in GADD34 KO mice. Molecular weight of GADD34 is 100 kDa confirmed in GADD34 KO mice, and Proteintech's GADD34 antibody 81250-1-RR primarily recongizes the 100 kDa band.		
Storage	Storage: Store at -80°C. The product is shipped with ice pack Storage Buffer: PBS Only	s. Upon receipt, store it immediately a	t -80℃

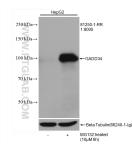
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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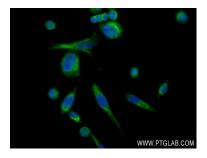
## Selected Validation Data



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. This data was developed using the same antibody clone with 81250-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 81250-1-PBS in a different storage buffer formulation.



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 AffiniPure Goat Anti-Rabbit IgC(H+L) (SA00013-2). This data was developed using the same antibody clone with 81250-1-PBS in a different storage buffer formulation.