

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: 400 µg/ml	GeneID (NCBI): 23645	CloneNo.: 4K3
Source: Rabbit	UNIPROT ID: O75807	Recommended Dilutions: WB 1:2000-1:16000
Isotype: IgG	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 15A	
Immunogen Catalog Number: AG0578	Calculated MW: 73 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : MG132 treated HepG2 cells, MG132 treated NIH/3T3 cells, MG132 treated HeLa cells
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 TGFβ1 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 recognizes the 100 kDa band.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

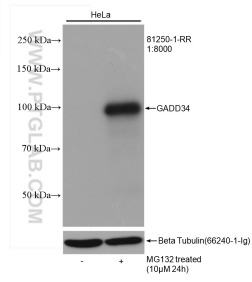
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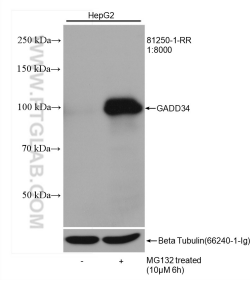
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Selected Validation Data



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.