

For Research Use Only

CoraLite® Plus 488-conjugated GADD34 Recombinant monoclonal antibody

Catalog Number: CL488-81250



Basic Information

Catalog Number: CL488-81250	GenBank Accession Number: BC003067	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 23645	CloneNo.: 4K3
Isotype: IgG	UNIPROT ID: O75807	Recommended Dilutions: IF/ICC: 1:50-1:500
Immunogen Catalog Number: AG0578	Full Name: protein phosphatase 1, regulatory (inhibitor) subunit 15A	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
	Calculated MW: 73 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications: IF/ICC	Positive Controls: IF/ICC : PC-3 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. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3
Aliquoting is unnecessary for -20°C storage

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

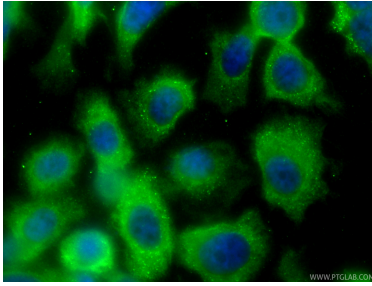
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-3 cells using CoraLite® Plus 488 GADD34 antibody (CL488-81250, Clone: 4K3) at dilution of 1:200.