For Research Use Only

CoraLite® Plus 488-conjugated GADD34 Recombinant monoclonal antibody

Catalog Number:

CL488-81250



Purification Method:

Protein A purification

Recommended Dilutions:

Excitation/Emission maxima

IF/ICC: 1:50-1:500

wavelengths: 493 nm / 522 nm

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Basic Information

GenBank Accession Number:

BC003067

GeneID (NCBI): CloneNo.: 4K3

100ul, Concentration: 1000 ug/ml by 23645 Nanodrop: **UNIPROT ID:**

075807 Rabbit Full Name:

Isotype: protein phosphatase 1, regulatory

(inhibitor) subunit 15A IgG

Immunogen Catalog Number: Calculated MW:

AG0578 73 kDa

> Observed MW: 100 kDa

Applications

Tested Applications:

Species Specificity: human, mouse

Positive Controls:

IF/ICC: PC-3 cells,

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 stressinducible 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

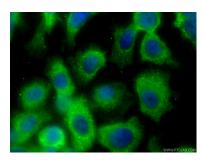
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

in USA), or 1(312) 455-8498 (outside USA)

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.