

PPP1R15A antibody

Product Information

Catalog No.:	FNab03293
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

Background

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 appears to be about 100 kDa which was confirmed in GADD34 KO mice and drug treated cells, despite the predicated MW of 73 kDa, and this antibody primarily recognize the 100 kDa band.

Immunogen information

Immunogen:	protein phosphatase 1, regulatory(inhibitor) subunit 15A
Synonyms:	Protein phosphatase 1 regulatory subunit 15A Growth arrest and DNA damage-inducible protein GADD34 Myeloid differentiation primary response protein MyD116 homolog PPP1R15A GADD34
Observed MW:	100 kDa
Uniprot ID :	O75807

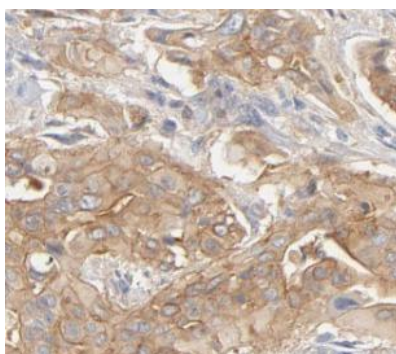
Application

Reactivity: Human, Mouse, Rat

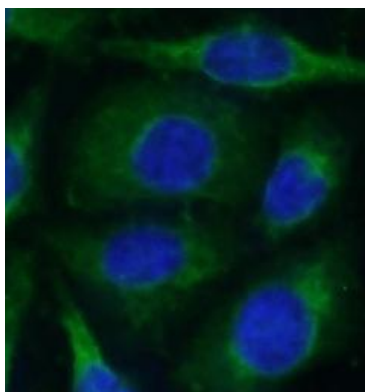
Tested Application: ELISA, WB, IHC, IF

Recommended dilution: WB: 1:200-1:1000; IHC: 1:20-1:200; IF: 1:20-1:200

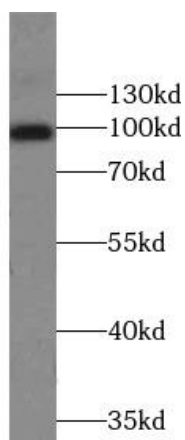
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Immunohistochemistry of paraffin-embedded human pancreas cancer using FNab03293(GADD34 antibody) at dilution of 1:100



Immunofluorescent analysis of PC-3 cells using FNab03293(GADD34 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L)



K-562 cells were subjected to SDS PAGE followed by western blot with FNab03293(GADD34 antibody) at dilution of 1:600