

# GADD34 Polyclonal Antibody

Catalog # AP74083

## Product Information

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Application	WB
Primary Accession	<a href="#">O75807</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73478

## Additional Information

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Gene ID	23645
Other Names	Protein phosphatase 1 regulatory subunit 15A (Growth arrest and DNA damage-inducible protein GADD34) (Myeloid differentiation primary response protein MyD116 homolog)
Dilution	WB~~WB 1:500-2000, ELISA 1:10000-20000
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	PPP1R15A
Synonyms	GADD34
Function	Recruits the serine/threonine-protein phosphatase PPP1CA to prevents excessive phosphorylation of the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress (PubMed: <a href="#">26095357</a> , PubMed: <a href="#">26742780</a> ). Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFβ1 by PP1 (PubMed: <a href="#">14718519</a> ). May promote apoptosis by inducing p53/TP53 phosphorylation on 'Ser-15' (PubMed: <a href="#">14635196</a> ). Plays an essential role in autophagy by tuning translation during starvation, thus enabling lysosomal biogenesis and a sustained autophagic flux (PubMed: <a href="#">32978159</a> ). Also acts a viral restriction factor by attenuating HIV-1 replication (PubMed: <a href="#">31778897</a> ). Mechanistically, mediates the inhibition of HIV-1 TAR RNA-mediated translation (PubMed: <a href="#">31778897</a> ).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein;

Cytoplasmic side Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associates with membranes via an N-terminal amphipathic intramembrane region

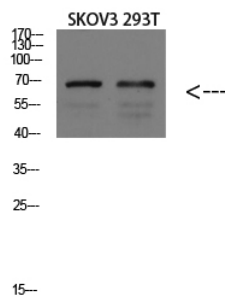
## Background

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Recruits the serine/threonine-protein phosphatase PP1 to dephosphorylate the translation initiation factor eIF-2A/EIF2S1, thereby reversing the shut-off of protein synthesis initiated by stress-inducible kinases and facilitating recovery of cells from stress. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'.

## Images

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Western blot analysis of MOUSE-BRAIN lysate, antibody was diluted at 1000. Secondary antibody was diluted at 1:20000

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.