

GADD34 Polyclonal Antibody
Catalog # AP74083**Specification**

GADD34 Polyclonal Antibody - Product Information

Application	WB
Primary Accession	O75807
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

GADD34 Polyclonal Antibody - Additional Information**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

GADD34 Polyclonal Antibody - Protein Information**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:26095357, PubMed:26742780). Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1 (PubMed:14718519). May promote apoptosis by inducing p53/TP53 phosphorylation on 'Ser-15' (PubMed:14635196). Plays an essential role in autophagy by tuning translation during starvation, thus enabling lysosomal biogenesis and a sustained autophagic flux (PubMed:32978159). Also acts a viral restriction factor by attenuating HIV-1 replication (PubMed:32978159).

[31778897](http://www.uniprot.org/citations/31778897)).
Mechanistically, mediates the inhibition of HIV-1 TAR RNA-mediated translation (PubMed:<[31778897](http://www.uniprot.org/citations/31778897)>).

Cellular Location

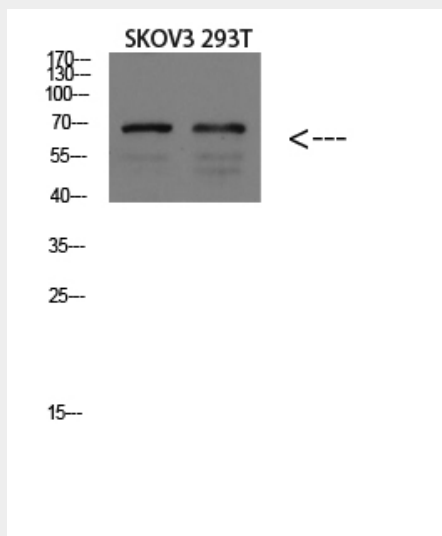
Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associates with membranes via an N-terminal amphipathic intramembrane region

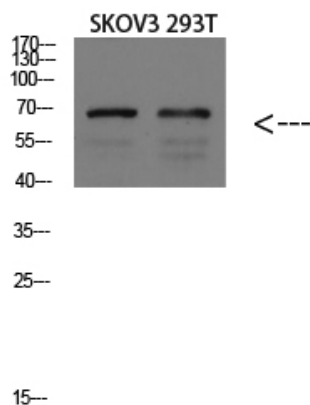
GADD34 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GADD34 Polyclonal Antibody - Images





GADD34 Polyclonal Antibody - Background

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'.