



Rabbit Anti-GADD34 antibody

SL10287R

Product Name:	GADD34
Chinese Name:	生长抑制DNA损伤基因34抗体
Alias:	Growth arrest and DNA damage-inducible 34; Apoptosis associated protein; GADD 34; Growth arrest and DNA damage inducible 34; Growth arrest and DNA-damage-inducible 34; PPP1R15A; Protein phosphatase 1 regulatory (inhibitor) subunit 15A; Protein phosphatase 1 regulatory subunit 15A; Apoptosis associated protein; GADD 34; Growth arrest and DNA damage inducible 34; Growth arrest and DNA damage-inducible protein GADD34; Myeloid differentiation primary response protein MyD116 homolog; Ppp1r15a; PR15A_HUMAN; Protein phosphatase 1 regulatory (inhibitor) subunit 15A; Protein phosphatase 1 regulatory subunit 15A.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1µg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	74kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GADD34:401-500/674
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The induction of this gene by ionizing radiation occurs in certain cell lines regardless of p53 status, and its protein response is correlated with apoptosis following ionizing radiation. [provided by RefSeq, Jul 2008]

Function:

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.

Subunit:

Interacts with PCNA. Interacts with LYN and MLL. Interacts with PP1, PPP1R1A and SMARCB1. Interacts with SMAD7. Interacts with BAG1.

Subcellular Location:

Endoplasmic reticulum.

Post-translational modifications:

Phosphorylated on tyrosine by LYN; which impairs its antiproliferative activity.

Similarity:

Belongs to the PPP1R15 family.

SWISS:

O75807

Gene ID:

23645

Database links:

[Entrez Gene: 514688](#)Cow

[Entrez Gene: 23645](#)Human

[Entrez Gene: 17872](#)Mouse

[Entrez Gene: 171071](#)Rat

[Omim: 611048](#)Human

[SwissProt: Q2KI51](#)Cow

[SwissProt: O75807](#)Human

[SwissProt: P17564](#)Mouse

[SwissProt: Q6IN02](#)Rat

Product Detail:

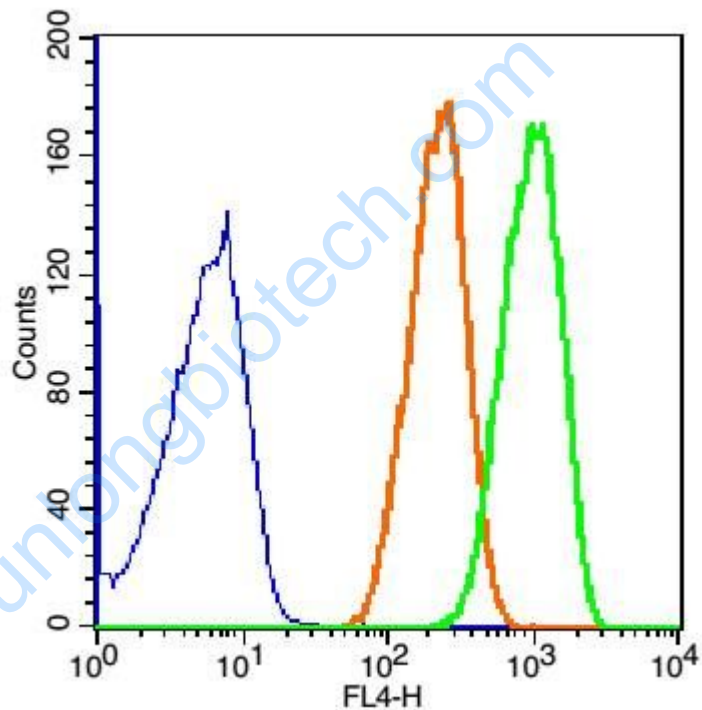
[Unigene: 631593](#)Human

[Unigene: 4048](#)Mouse

[Unigene: 2232](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Blank control(blue): 293T Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice).

Primary Antibody: Rabbit Anti-GADD34/AF647 Conjugated antibody (SL10287R),

Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/FITC(orange) ,used under the same conditions.