

Datasheet: AHP683

Description:	GOAT ANTI HUMAN GADD34
Specificity:	GADD34
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5ug/ml - 2ug/ml

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/postive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to GADD34 were raised by repeated immunisations of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	TRIS buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Peptide sequence AAALDLSGRRG corresponding to the C-terminus of GADD34 (NP_055145).
External Database Links	UniProt: O75807 Related reagents

Entrez Gene:[23645](#) [PPP1R15A](#) [Related reagents](#)**Synonyms**

GADD34

Specificity

Goat anti Human GADD34 antibody recognizes the protein GADD34 (growth arrest and DNA-damage-inducible 34), also known as PPP1R15A. GADD34 is a member of a group of genes whose transcript levels are increased in response to treatment with DNA damaging agents or conditions of stress ([Amundson *et al.* 1998](#)). Induction of GADD34 by ionising radiation has been reported in some cell lines, regardless of p53 status ([Hollander *et al.* 1997](#)). Reports suggest that GADD34 may be involved in a signal transduction pathway controlling cell cycle arrest and/or apoptosis following DNA damage ([Hollander *et al.* 2003](#)).

Goat anti human GADD34 antibody has been used successfully for following GADD34 protein turnover in multiple cell lines and primary cells by Western blotting ([Zhou *et al.* 2013](#))

Western Blotting

AHP683 detects a band of approximately 80-90kDa in U937 cell lysates. An overnight incubation time of 12 hours is recommended for this antibody.

References

1. Zhou, W. *et al.* (2011) Association with endoplasmic reticulum promotes proteasomal degradation of GADD34 protein. [J Biol Chem. 286: 21687-96.](#)
2. Zhou, W. *et al.* (2013) Phosphorylation at tyrosine 262 promotes GADD34 protein turnover. [J Biol Chem. 288 \(46\): 33146-55.](#)
3. Imbeault, M. *et al.* (2009) Microarray study reveals that HIV-1 induces rapid type-I interferon-dependent p53 mRNA up-regulation in human primary CD4+ T cells. [Retrovirology. 6: 5.](#)

Further Reading

1. Hollander, M.C. *et al.* (1997) Mammalian GADD34, an apoptosis- and DNA damage-inducible gene. [J Biol Chem. 272 \(21\): 13731-7.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10058 available at: 10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

'M256373:131211'

Printed on 01 May 2018
