

## Datasheet: AHP683

<b>Description:</b>	GOAT ANTI HUMAN GADD34
<b>Specificity:</b>	GADD34
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
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**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.

<b>Buffer Solution</b>	TRIS buffered saline
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<b>Preservative</b>	0.02% Sodium Azide
<b>Stabilisers</b>	0.5% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
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**Immunogen** Peptide sequence AAALDLSGRRG corresponding to the C-terminus of GADD34 (NP\_055145).

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**External Database Links**

**UniProt:**

[O75807](#)    [Related reagents](#)

**Entrez Gene:**

[23645](#)    PPP1R15A    [Related reagents](#)

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**Synonyms**

GADD34

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**RRID**

AB\_2168722

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**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](#))

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**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.

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**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.](#)
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**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.](#)
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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee** 12 months from date of despatch

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

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**North & South** Tel: +1 800 265 7376

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M383368:210513'

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