



Product datasheet

Anti-GADD34 antibody ab9869

★★★★★ [1 Abreviews](#) [10 References](#) [3 Images](#)

Overview

Product name	Anti-GADD34 antibody
Description	Goat polyclonal to GADD34
Host species	Goat
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Human GADD34 aa 650 to the C-terminus (C terminal) (Cysteine residue). NP_055145.3. Database link: Q75807-1
	 Run BLAST with  Run BLAST with
Positive control	WB: HepG2 cell lysate. IHC-P: Human liver tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab9869 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB	★★★★★ (1)	Use a concentration of 0.3 - 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 75 kDa). 1 hour primary incubation is recommended for this product.

Target

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. Down-regulates the TGF-beta signaling pathway by promoting dephosphorylation of TGFB1 by PP1. May promote apoptosis by inducing TP53 phosphorylation on 'Ser-15'.

Sequence similarities

Belongs to the PPP1R15 family.

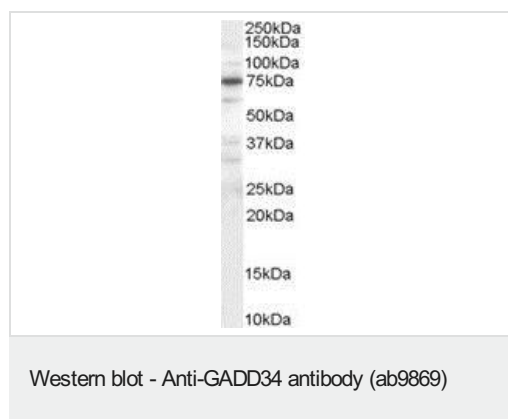
Post-translational modifications

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

Cellular localization

Endoplasmic reticulum.

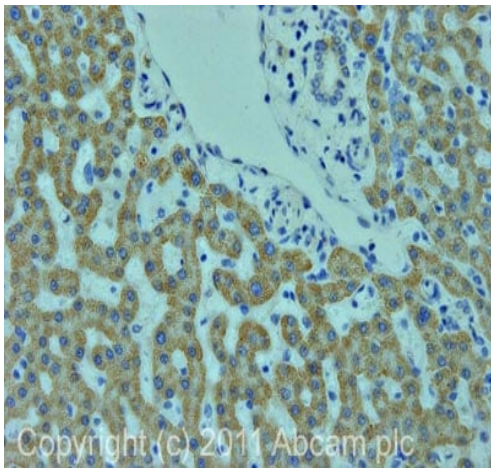
Images



Anti-GADD34 antibody (ab9869) at 0.1 µg/ml + HEPG2 cell lysate at 35 µg

Predicted band size: 75 kDa

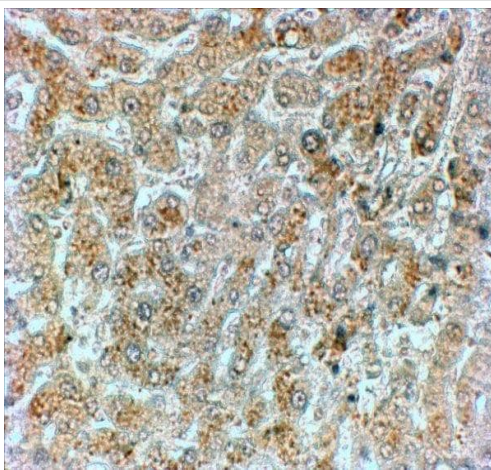
Primary incubation for 1 hour. Detection by chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GADD34 antibody (ab9869)

IHC image of ab9869 staining in human normal liver formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab9869, 10µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GADD34 antibody (ab9869)

ab9869 staining GADD34 in human liver sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

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