abcam

Product datasheet

Anti-GAPDH antibody - Loading Control ab70700

1 References 2 Images

Overview

Immunogen

Product name Anti-GAPDH antibody - Loading Control

Description Rabbit polyclonal to GAPDH - Loading Control

Host species Rabbit

SpecificityWe have data to indicate that this antibody may not cross react with Human. However, this has not

been conclusively tested and expression levels may vary in certain cell lines/tissues.

Tested applications Suitable for: IHC-P, WB

Species reactivity Reacts with: Mouse

Predicted to work with: Rat, Gerbil, Chinese hamster

Synthetic peptide within Mouse GAPDH aa 300-335 (C terminal). The exact sequence is

proprietary.

Database link: P16858

Positive control Whole cell lysate from mouse NIH3T3 cells.

General notes

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.

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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer pH: 6.8

Preservative: 0.09% Sodium azide

Constituents: 0.1% BSA, Tris buffered saline

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

1

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab70700 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		1/200 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/2000 - 1/10000. Detects a band of approximately 38 kDa (predicted molecular weight: 36 kDa).

Target

Function

Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.

Pathway

Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.

Sequence similarities

Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.

Post-translational modifications

S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus.

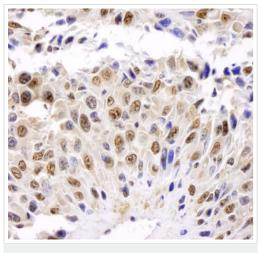
ISGylated.

Cellular localization

Cytoplasm > cytosol. Nucleus. Cytoplasm > perinuclear region. Membrane. Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization

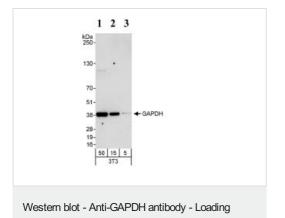
signal (By similarity). Postnuclear and Perinuclear regions.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-GAPDH antibody - Loading Control (ab70700)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse squamous cell carcinoma tissue labelling GAPDH with ab70700 at 1/200 (1µg/ml). Detection: DAB.



Control (ab70700)

All lanes : Anti-GAPDH antibody - Loading Control (ab70700) at 0.04 µg/ml

Lane 1 : Whole cell lysate from mouse NIH3T3 cells. at 50 μ g Lane 2 : Whole cell lysate from mouse NIH3T3 cells. at 15 μ g Lane 3 : Whole cell lysate from mouse NIH3T3 cells. at 5 μ g

Predicted band size: 36 kDa Observed band size: 38 kDa

Exposure time: 30 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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