

Anti-GAPDH antibody - Loading Control ab37168

★★★★★ [2 Abreviews](#) [445 References](#) [5 图像](#)

概述

产品名称	Anti-GAPDH抗体- Loading Control
描述	兔多克隆抗体to GAPDH - Loading Control
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human GAPDH aa 60-110 (N terminal). Synthetic peptide, corresponding to 16 N terminal amino acids of Human GAPDH Database link: P04406
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at +4°C.
存储溶液	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified
纯化说明	GAPDH Antibody is affinity chromatography purified via peptide column.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

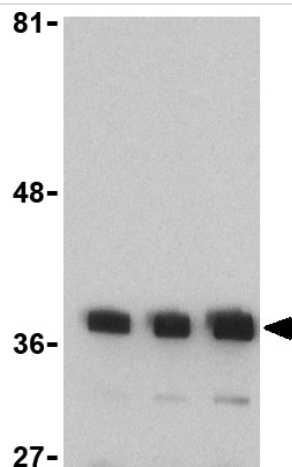
Abpromise™承诺保证使用ab37168于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		Use a concentration of 0.5 - 1 µg/ml. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).
IHC-P		Use a concentration of 10 µg/ml.
ICC/IF		Use a concentration of 0.1 - 1 µg/ml.

靶标	
功能	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 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.
通路	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.
序列相似性	Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.
翻译后修饰	S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus. ISGylated.
细胞定位	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.

图片



Western blot - Anti-GAPDH antibody - Loading Control (ab37168)

Lane 1 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.125 µg/ml

Lane 2 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.25 µg/ml

Lane 3 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.5 µg/ml

All lanes : HeLa cell lysate with GAPDH peptide

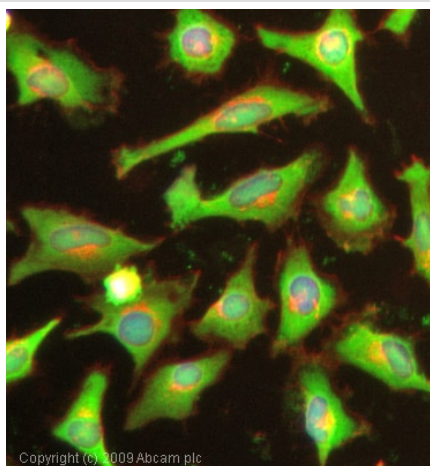
Lysates/proteins at 15 µg per lane.

Secondary

All lanes : anti-rabbit IgG HRP at 1/10000 dilution

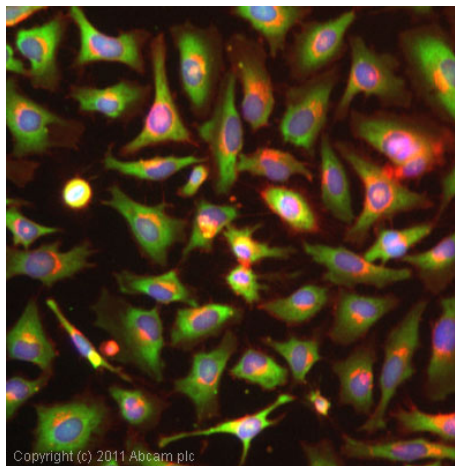
Predicted band size: 36 kDa

Observed band size: 36 kDa



Immunocytochemistry/ Immunofluorescence - Anti-GAPDH antibody - Loading Control (ab37168)

ICC/IF image of **ab37168** stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab37168**, 1mg/ml) overnight at +4°C. The secondary antibody (green) was **anti-rabbit Alexa Fluor® 488 (ab150077)** used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

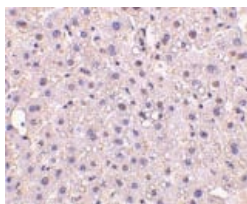


Immunocytochemistry/ Immunofluorescence - Anti-GAPDH antibody - Loading Control (ab37168)

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Immunocytochemistry/ Immunofluorescence - Anti-GAPDH antibody - Loading Control (ab37168)

Immunofluorescence of GAPDH in HeLa cells using **ab37168** at 10 µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GAPDH antibody - Loading Control (ab37168)

ab37168 at 10µg/ml staining GAPDH in human liver tissue by IHC

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