abcam

Product datasheet

Anti-GAPDH antibody - Loading Control ab37168

★★★★★ 2 Abreviews 445 References 画像数 5

製品の概要

製品名	Anti-GAPDH antibody - Loading Control
製品の詳細	Rabbit polyclonal to GAPDH - Loading Control
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P, ICC/IF
種交差性	**交差種:** 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**
特記事項	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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at +4°C.
バッファー	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
精製度	Immunogen affinity purified
特記事項（精製）	GAPDH Antibody is affinity chromatography purified via peptide column.
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab37168の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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.

ターゲット情報

機能 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.

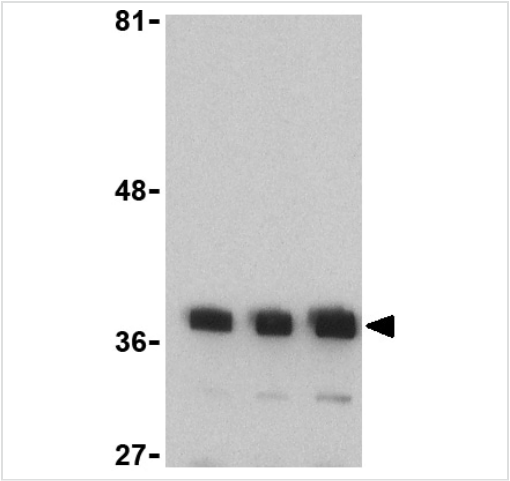
パスウェイ Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.

配列類似性 Belongs to the glyceraldehyde-3-phosphate dehydrogenase family.

翻訳後修飾 S-nitrosylation of Cys-152 leads to interaction with SIAH1, followed by translocation to the nucleus.
ISGylated.

細胞内局在 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.

画像



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

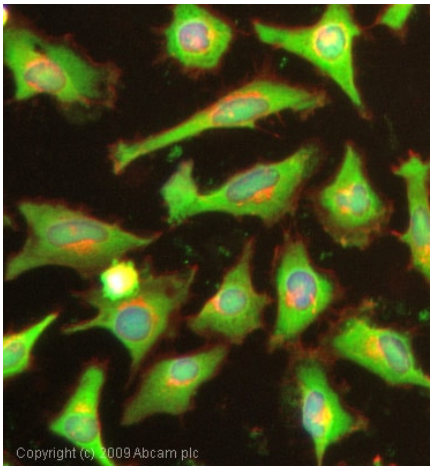
Lane 1 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.125 µg/ml
Lane 2 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.25 µg/ml
Lane 3 : Anti-GAPDH antibody - Loading Control (ab37168) at 0.5 µg/ml

All lanes : HeLa cell lysate with GAPDH peptide

Lysates/proteins at 15 µg per lane.

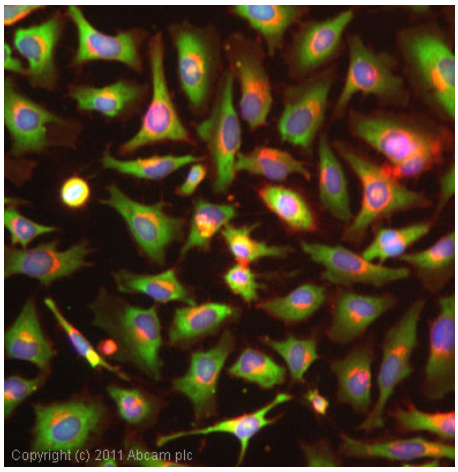
Secondary
All lanes : anti-rabbit IgG HRP at 1/10000 dilution

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 +4øC. 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 1.43æM.

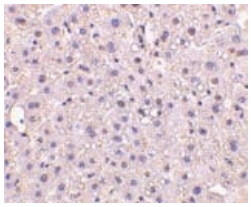


Immunocytochemistry/ Immunofluorescence - Anti-GAPDH antibody - Loading Control (ab37168)

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**, 1µg/ml) overnight at +4°C. The secondary antibody (green) was **anti-Rabbit DyLight® 488 pre-adsorbed** (**ab96899**) used at a 1/250 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)

Immunofluorescence of GAPDH in HeLa cells using **ab37168** at 10 ug/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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