


Product datasheet

Anti-GAPDH antibody - Loading Control ab157156

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Overview

Product name	Anti-GAPDH antibody - Loading Control
Description	Goat polyclonal to GAPDH - Loading Control
Host species	Goat
Tested applications	Suitable for: IHC-Fr, WB
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Sheep, Rabbit, Chicken, Guinea pig, Cow, Turkey, Pig, Xenopus laevis, Caenorhabditis elegans, Drosophila melanogaster, Zebrafish, Orangutan, Xenopus tropicalis 
Immunogen	Synthetic peptide within Human GAPDH aa 175-225. The exact sequence is proprietary. Database link: P04406
Positive control	293T, HeLa, Jurkat and mouse NIH 3T3 whole cell lysates.
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. Store at +4°C.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
Purity	pH 7 to 8 Immunogen affinity purified
Purification notes	ab157156 was affinity purified using an epitope specific to GAPDH immobilized on solid support.
Clonality	Polyclonal

Isotype

IgG

Applications

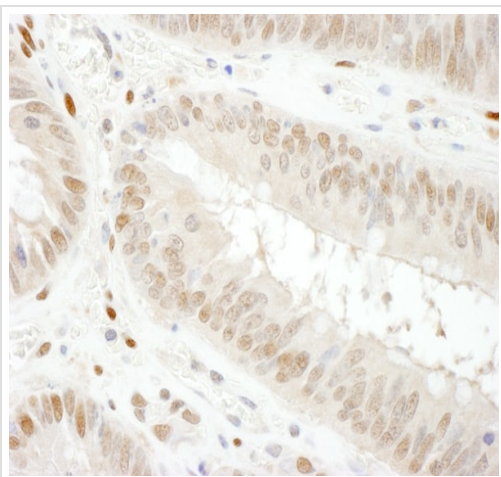
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab157156 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		1/500 - 1/2000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
WB	★☆☆☆☆ (2)	1/500 - 1/2500. Predicted molecular weight: 36 kDa.

Target

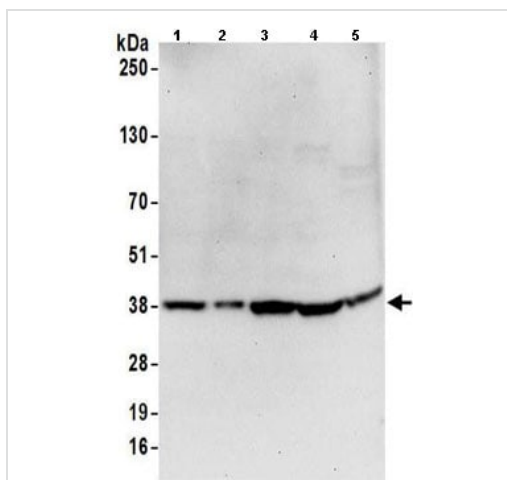
Function	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to 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 3-phosphate (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



Immunohistochemical analysis of frozen sections of human colon carcinoma tissue labelling GAPDH with ab157156 at 1/1000 (1µg/ml). Detection: DAB.

Immunohistochemistry (Frozen sections) - Anti-GAPDH antibody - Loading Control (ab157156)



Western blot - Anti-GAPDH antibody - Loading Control (ab157156)

All lanes : Anti-GAPDH antibody - Loading Control (ab157156) at 1 µg/ml

Lane 1 : 293T whole cell lysate at 50 µg

Lane 2 : 293T whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 50 µg

Lane 4 : Jurkat whole cell lysate at 50 µg

Lane 5 : NIH 3T3 whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 36 kDa

Exposure time: 30 seconds

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

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