

Product datasheet

Anti-GAPDH antibody [mAbcam 9484] - Loading Control (HRP) ab9482

★★★★★ 20 Abreviews 118 References 1 Image

Overview

Product name	Anti-GAPDH antibody [mAbcam 9484] - Loading Control (HRP)
Description	Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control (HRP)
Host species	Mouse
Conjugation	HRP
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Rabbit, Chicken, Cow, Dog, Human, Xenopus laevis, Chinese hamster
Immunogen	Full length native protein from human erythrocytes.
Positive control	WB: HeLa, HEK-293, NIH/3T3 and PC-12 whole cell lysates.
General notes	<p>According to our customer's feedback this antibody does not recognise meningococcal GapA1 or GapA2 (GAPDH) recombinant proteins.</p> <p>This antibody has been conjugated with HRP. The concentration of the original antibody was 1 mg/ml, following conjugation the concentration observed will be higher.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	mAbcam 9484
Myeloma	Sp2/0-Ag14
Isotype	IgG2b
Light chain type	kappa

Applications

Applications

Our [Abpromise guarantee](#) covers the use of **ab9482** in the following tested applications.

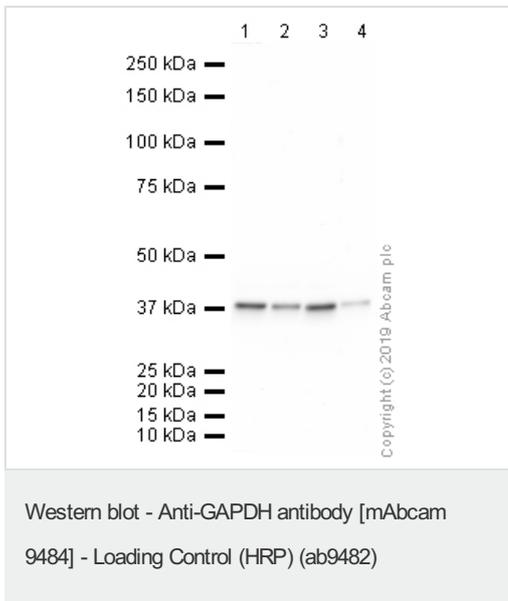
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★	1/1000 - 1/5000. Detects a band of approximately 40 kDa (predicted molecular weight: 40.2 kDa). NOT SUITABLE for blocking with milk. Block in 5% BSA for 1 hour. Our labs have thoroughly investigated the blocking conditions for this ab following concerning customer feedback on the lack of signal with some vials. We found that milk significantly decreases signal and is therefore not a suitable blocking agent for this ab (see images of our tests on the datasheet of the unconjugated version, ab9484). This change in characteristics of the ab is due to a recent update to the production process.

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



All lanes : Anti-GAPDH antibody [mAbcam 9484] - Loading Control (HRP) (ab9482) at 1/1000 dilution

Lane 1 : HeLa Whole Cell Lysate

Lane 2 : Hek293 Whole Cell Lysate

Lane 3 : NIH 3T3 Whole Cell Lysate

Lane 4 : PC12 Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 40.2 kDa

Observed band size: 37 kDa

[why is the actual band size different from the predicted?](#)

Exposure time: 4 minutes

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