abcam

Product datasheet

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

20 Abreviews 208 References 1 Image

Overview

Product name	HRP Anti-GAPDH antibody [mAbcam 9484] - Loading Control
Description	HRP Mouse monoclonal [mAbcam 9484] to GAPDH - Loading Control
Host species	Mouse
Conjugation	HRP
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Rabbit, Chicken, Cow, Dog, Xenopus laevis, Chinese hamster
Immunogen	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HEK-293, NIH/3T3 and PC-12 whole cell lysates.
General notes	According to our customer's feedback this antibody does not recognise meningococcal GapA1 or GapA2 (GAPDH) recombinant proteins. 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. 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	Preservative: 0.1% 10% Proclin 300 Solution Constituents: PBS, 1% BSA, 30% Glycerol (glycerin, glycerine)
Purity	IgG fraction

Clonality	Monoclonal
Clone number	mAbcam 9484
Myeloma	Sp2/0-Ag14
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab9482 in the following tested applications.

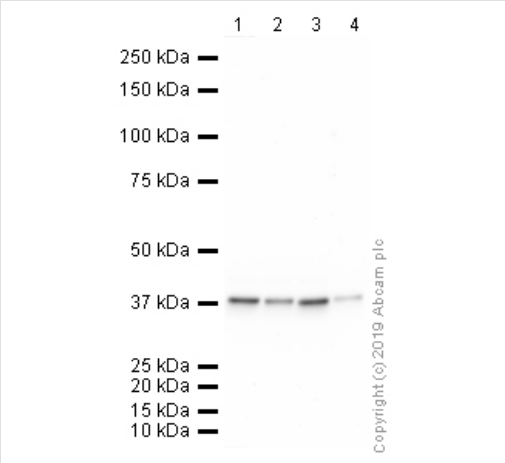
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(20)**	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

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



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

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

Lane 1 : HeLa Whole Cell Lysate
Lane 2 : Hek293 Whole Cell Lysate
Lane 3 : NIH 3T3 Whole Cel lLysate
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

Exposure time: 4 minutes

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors