abcam

Product datasheet

HRP Anti-GAPDH antibody [EPR16891] - Loading Control ab201822

重组 RabMAb

8 References 3 图像

概述

产品名称	HRP Anti-GAPDH抗体[EPR16891] - Loading Control
描述	HRP兔单克隆抗体[EPR16891] to GAPDH - Loading Control
宿主	Rabbit
偶联物	HRP
经测试应用	**适用于:** IHC-P, WB
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Chicken, Fish, Monkey, Zebrafish, Xenopus tropicalis
免疫原	Recombinant fragment within Mouse GAPDH aa 100 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **P16858** **Run BLAST with** **Run BLAST with**
阳性对照	WB: HeLa, NIH3T3, PC-12 whole cell lysates and Human, Mouse, Rat brain tissue lysates. IHC-P: FFPE human kidney renal cell carcinoma tissue sections.
常规说明	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR16891
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab201822于以下的经测试应用**

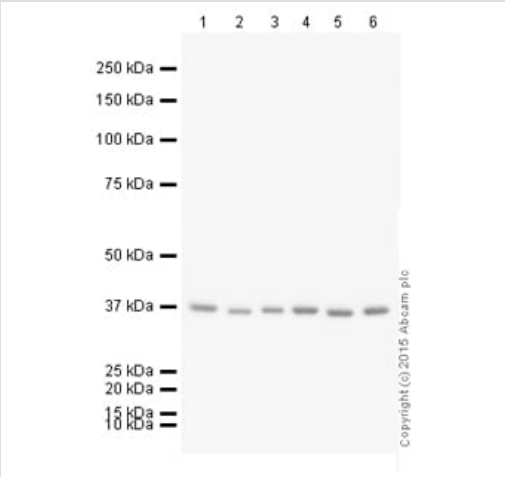
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/5000. Detects a band of approximately 36 kDa (predicted molecular weight: 36 kDa).

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 - HRP Anti-GAPDH antibody [EPR16891] - Loading Control (ab201822)

All lanes : HRP Anti-GAPDH antibody [EPR16891] - Loading Control (ab201822) at 1/5000 dilution

Lane 1 : HeLa (Human epithelial carcinoma cell line) Whole Cell Lysate
Lane 2 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 3 : PC12 (Rat adrenal pheochromocytoma cell line) Whole Cell Lysate
Lane 4 : Human brain tissue lysate - total protein (**ab29466**)
Lane 5 : Brain (Mouse) Tissue Lysate
Lane 6 : Brain (Rat) Tissue Lysate

Lysates/proteins at 10 µg per lane.

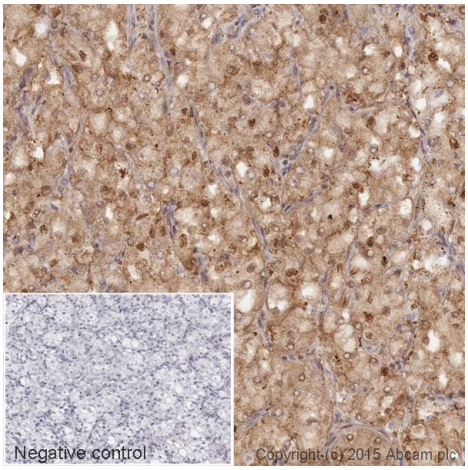
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 36 kDa
Observed band size: 36 kDa

Exposure time: 30 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab201822 overnight at 4°C. Antibody binding was visualised using ECL development solution **ab133406**.

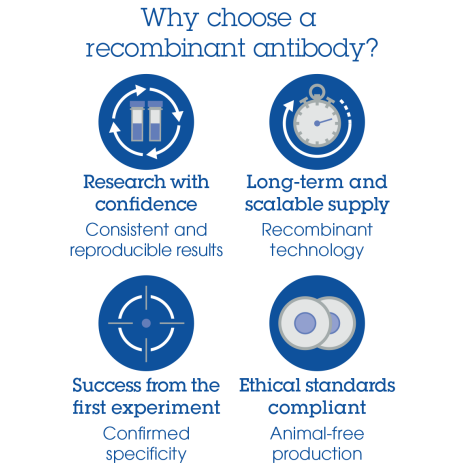


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - HRP Anti-GAPDH antibody [EPR16891] - Loading Control (ab201822)

IHC image of GAPDH staining in a section of formalin-fixed paraffin-embedded human kidney renal cell carcinoma tissue*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6) for 30mins, and incubated overnight at +4°C with ab201822 at 1/100 dilution. DAB was used as the chromogen (**ab103723**), diluted 1/100 and incubated for 10min at room temperature. The section was counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

**Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre*



HRP Anti-GAPDH antibody [EPR16891] - Loading Control (ab201822)

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