abcam

Product datasheet

Anti-PKM antibody [EPR10139] ab154816

重组 RabMAb

2 References 8 图像

概述

产品名称	Anti-PKM抗体[EPR10139]
描述	兔单克隆抗体[EPR10139] to PKM
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P **不适用于:** Flow Cyt,ICC/IF or IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Human PKM (internal sequence). Database link: **P14618**
阳性对照	Human fetal muscle tissue lysate; HeLa; A549 and Jurkat cell lysates; Human kidney and cervical carcinoma tissue. IHC-P: Mouse and rat cerebrum. WB: Mouse and rat brain, testis and spleen tissue lysate.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. 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 -20ºC.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
纯度	Protein A purified
克隆	单克隆

克隆编号	EPR10139
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab154816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
WB		1/1000 - 1/10000. Predicted molecular weight: 58 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

应用说明 Is unsuitable for Flow Cyt,ICC/IF or IP.

靶标

功能 Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio betwween the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.

组织特异性 Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.

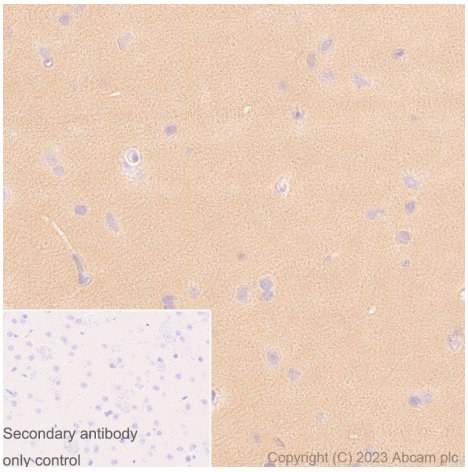
通路 Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5.

序列相似性 Belongs to the pyruvate kinase family.

翻译后修饰 ISGylated.
Under hypoxia, hydroxylated by EGLN3.
Acetylation at Lys-305 is stimulated by high glucose concentration, it decreases enzyme activity and promotes its lysosomal-dependent degradation via chaperone-mediated autophagy.
FGFR1-dependent tyrosine phosphorylation is reduced by interaction with TRIM35.

细胞定位 Cytoplasm. Nucleus. Translocates to the nucleus in response to different apoptotic stimuli. Nuclear translocation is sufficient to induce cell death that is caspase independent, isoform-specific and independent of its enzymatic activity.

图片

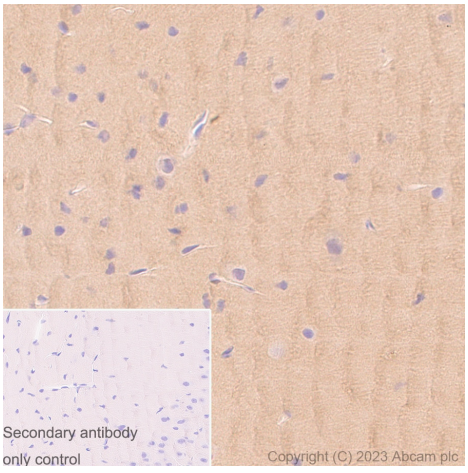


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKM antibody [EPR10139] (ab154816)

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling PKM with ab154816 at 1/10000 (0.103 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.

Positive staining on rat cerebrum. The section was incubated with ab154816 for 30 mins at room temperature.
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKM antibody [EPR10139] (ab154816)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling PKM with ab154816 at 1/10000 (0.103 µg/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used.

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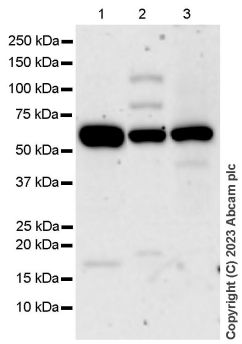


Western blot - Anti-PKM antibody [EPR10139] (ab154816)

All lanes : Anti-PKM antibody [EPR10139] (ab154816) at 1/1000 dilution

Lane 1 : Rat brain tissue lysate
Lane 2 : Rat testis tissue lysate
Lane 3 : Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

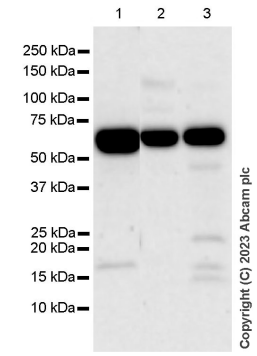
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 58 kDa
Observed band size: 58 kDa

Exposure time: 180 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The lysates were freshly made and used for Western Blotting immediately to minimize protein degradation.



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All lanes : Anti-PKM antibody [EPR10139] (ab154816) at 1/1000 dilution

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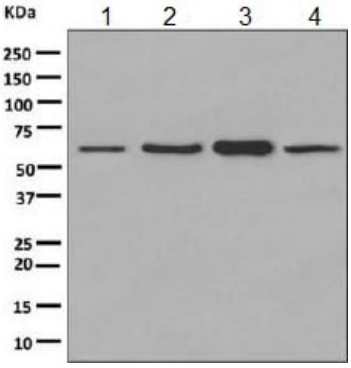


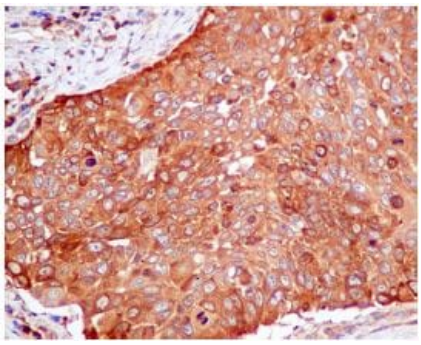
Western blot - Anti-PKM antibody [EPR10139] (ab154816)

All lanes : Anti-PKM antibody [EPR10139] (ab154816) at 1/1000 dilution

Lane 1 : Human fetal muscle tissue lysate
Lane 2 : HeLa cell lysate
Lane 3 : A549 cell lysate
Lane 4 : Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

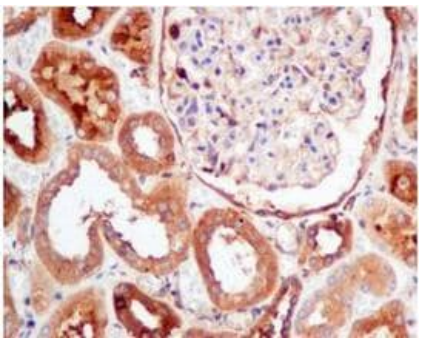
Predicted band size: 58 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKM antibody [EPR10139] (ab154816)

Immunohistochemical analysis of paraffin-embedded Human cervical carcinoma, labeling PKM using ab154816 at 1/100 dilution.

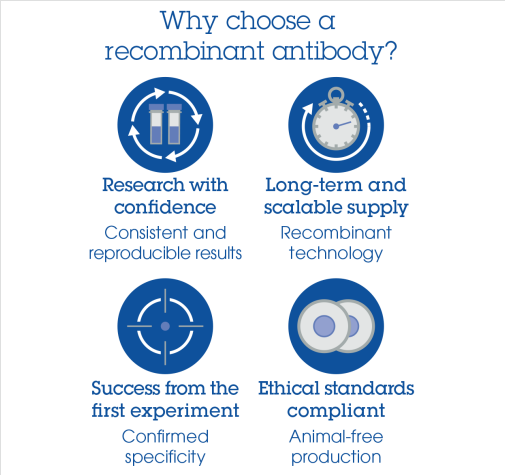
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PKM antibody [EPR10139] (ab154816)

Immunohistochemical analysis of paraffin-embedded human kidney, labeling PKM using ab154816 at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-PKM antibody [EPR10139] (ab154816)

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