

Anti-PGK1 antibody [EPR19057] ab199438

重组 RabMAb

★★★★★ **1 Abreviews** **11 References** **8 图像**

概述

产品名称	Anti-PGK1抗体[EPR19057]
描述	兔单克隆抗体[EPR19057] to PGK1
宿主	Rabbit
特异性	ab199438 has weak cross-reactivity with PGK2
经测试应用	适用于: Flow Cyt (Intra), WB, ICC/IF
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: HeLa, HepG2, Jurkat, C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Human fetal brain and fetal heart lysates; Mouse brain, heart and kidney lysates; Rat brain, heart and kidney lysates. ICC/IF: HeLa and Jurkat cells. Flow Cyt (intra): HeLa cells.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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 long term. Avoid freeze / thaw cycle.
存储溶液	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆

克隆编号EPR19057

同种型IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab199438于以下的经测试应用

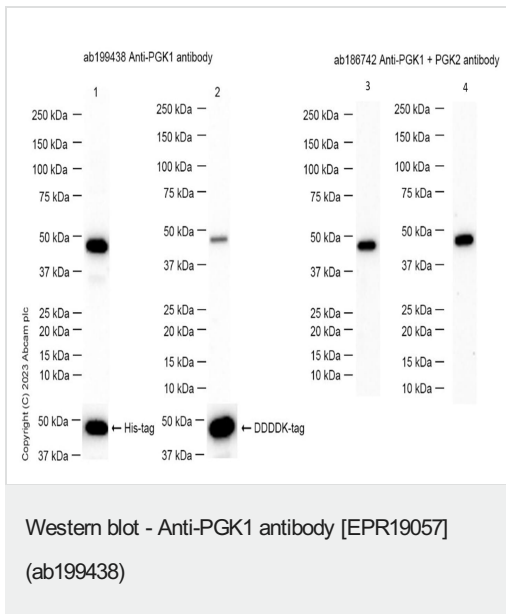
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/150.
WB	★★★★★ (1)	1/1000 - 1/2000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).
ICC/IF		1/250.

靶标

功能	In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).
通路	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 2/5.
疾病相关	Defects in PGK1 are the cause of phosphoglycerate kinase 1 deficiency (PGK1D) [MIM:300653]. It is a condition with a highly variable clinical phenotype that includes hemolytic anemia, rhabdomyolysis, myopathy and neurologic involvement. Patients can express one or more of these manifestations.
序列相似性	Belongs to the phosphoglycerate kinase family.
细胞定位	Cytoplasm.

图片



Lanes 1-2 : Anti-PGK1 antibody [EPR19057] (ab199438) at 1/1000 dilution

Lanes 3-4 : Anti-IL-21R antibody [RM0109-7F27] ([ab86742](#)) at 1/5000 dilution

Lanes 1 & 3 : PGK1 Human Recombinant Protein

Lanes 2 & 4 : PGK2 Human Recombinant Protein

Lysates/proteins at 20 µg per lane.

Secondary

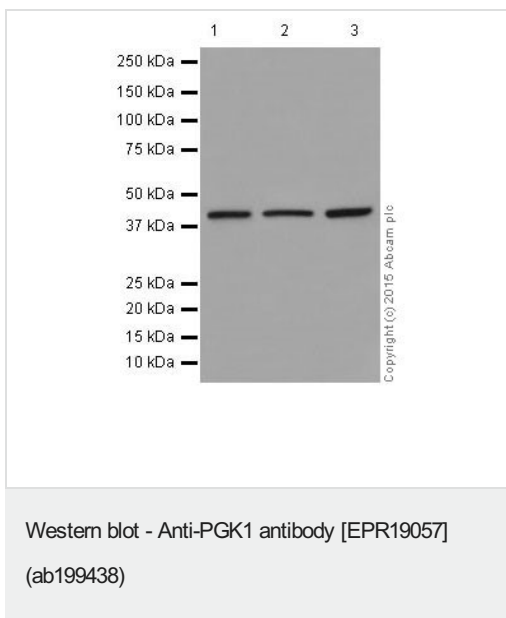
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 45 kDa

Exposure time: 5 seconds

Blocking and Diluting Buffer: 5% NFDM /TBST

Lanes 3 and 4 Exposure: 60 seconds



All lanes : Anti-PGK1 antibody [EPR19057] (ab199438) at 1/2000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate

Lane 2 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate

Lane 3 : Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

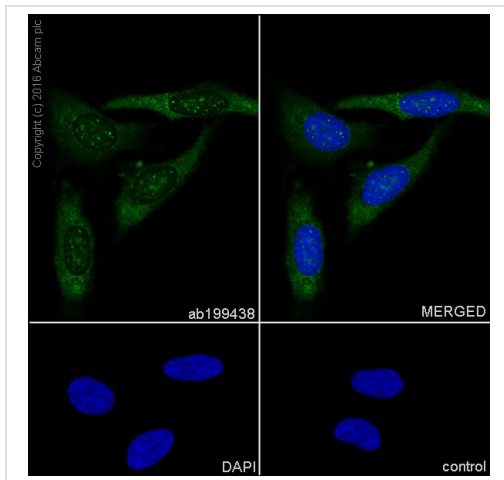
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

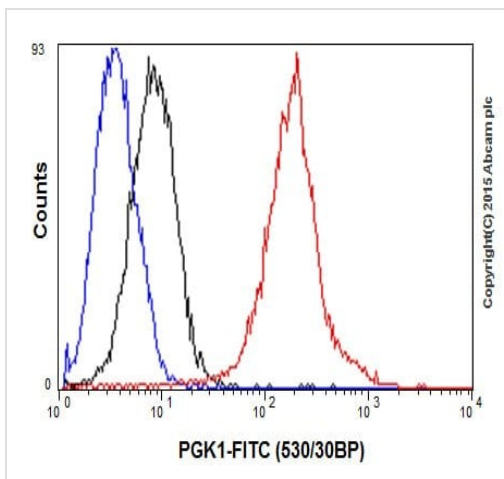
Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



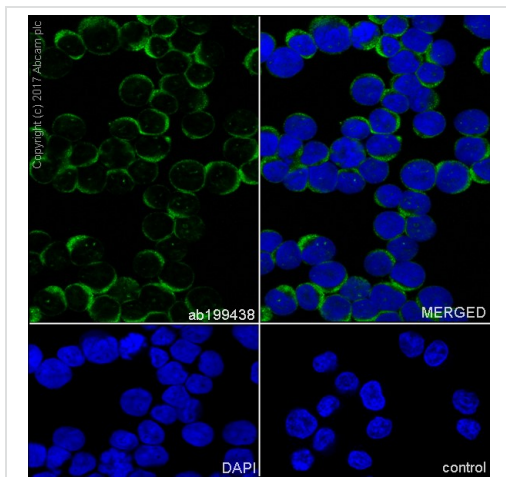
Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody [EPR19057] (ab199438)

Immunofluorescent analysis of 100% methanol-fixed HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling PGK1 with ab199438 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and weak nuclear staining in HeLa cells. The nuclear counterstain is DAPI (blue).



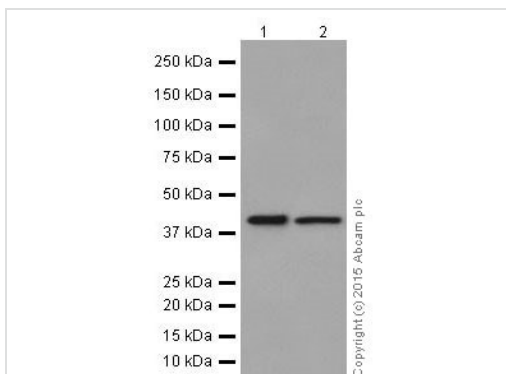
Flow Cytometry (Intracellular) - Anti-PGK1 antibody [EPR19057] (ab199438)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling PGK1 with ab199438 at 1/150 dilution (red) compared with a rabbit monoclonal IgG isotype control ([ab172730](#); black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody [EPR19057] (ab199438)

Immunofluorescent analysis of 100% methanol-fixed Jurkat (human T cell leukemia cell line from peripheral blood) cells labeling PGK1 with ab199438 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and weak nuclear staining in Jurkat cells. The nuclear counterstain is DAPI (blue).



Western blot - Anti-PGK1 antibody [EPR19057] (ab199438)

All lanes : Anti-PGK1 antibody [EPR19057] (ab199438) at 1/2000 dilution

Lane 1 : Human fetal brain lysate

Lane 2 : Human fetal heart lysate

Lysates/proteins at 10 µg per lane.

Secondary

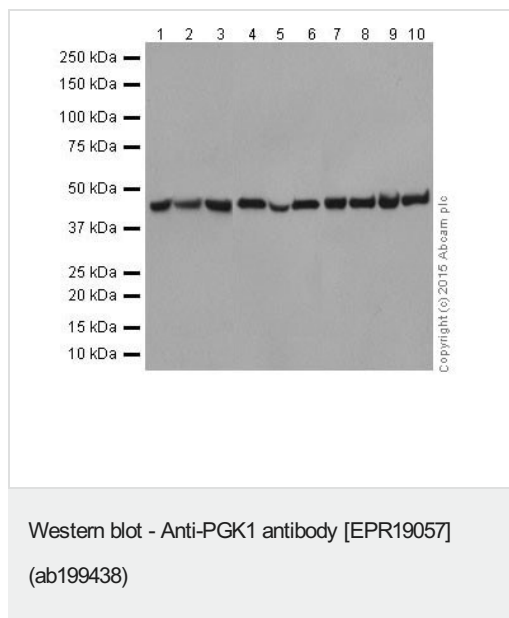
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/10000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-PGK1 antibody [EPR19057] (ab199438) at 1/2000 dilution

Lane 1 : Mouse brain lysate at 10 µg

Lane 2 : Mouse heart lysate at 10 µg

Lane 3 : Mouse kidney lysate at 10 µg

Lane 4 : Rat brain lysate at 10 µg

Lane 5 : Rat heart lysate at 10 µg

Lane 6 : Rat kidney lysate at 10 µg

Lane 7 : C6 (Rat glial tumor cells) whole cell lysate

Lane 8 : RAW 264.7 (Mouse macrophage cells transformed with Abelson murine leukemia virus) whole cell lysate

Lane 9 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 10 : NIH/3T3 (Mouse embryo fibroblast cells) whole cell lysate

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution





Predicted band size: 45 kDa

Observed band size: 45 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

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