


Anti-Glucose 6 Phosphate Dehydrogenase antibody ab76598

★★★★★ [8 Abreviews](#) [7 References](#) [3 图像](#)

概述

产品名称	Anti-Glucose 6 Phosphate Dehydrogenase抗体
描述	兔多克隆抗体to Glucose 6 Phosphate Dehydrogenase
宿主	Rabbit
经测试应用	适用于: ICC/IF, IHC-P, WB
种属反应性	与反应: Mouse, Human 预测可用于: Rat, Sheep, Cow, Chimpanzee, Baboon, Chinese hamster 
免疫原	Synthetic peptide corresponding to Human Glucose 6 Phosphate Dehydrogenase aa 50-150. (Peptide available as ab87367)
阳性对照	Recombinant human Glucose 6 Phosphate Dehydrogenase protein (ab126671) can be used as a positive control in WB. This antibody gave a positive signal in RAW 264.7 and Jurkat whole cell lysates, and in human placenta and lymph node tissue lysates. IHC-P: Hodgkin's lymphoma
常规说明	<p>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.</p> <p>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</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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
	Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

纯度	Immunogen affinity purified
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab76598于以下的经测试应用

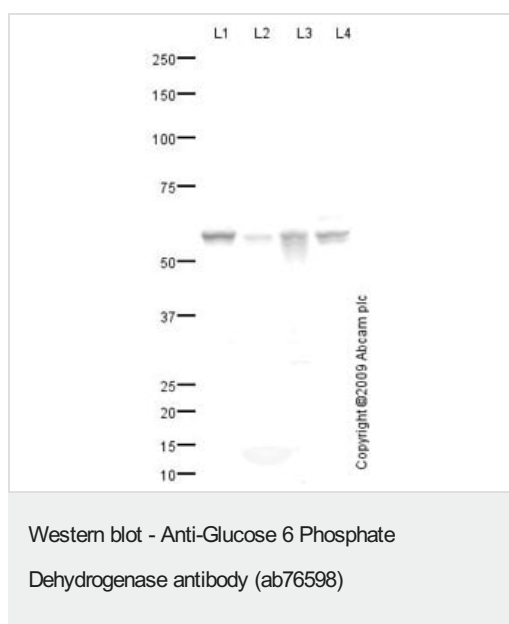
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF	★★★★★ (1)	Use a concentration of 1 µg/ml.
IHC-P	★★★★★ (1)	Use a concentration of 0.2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★☆ (5)	Use a concentration of 1 µg/ml. Detects a band of approximately 59 kDa (predicted molecular weight: 59 kDa).

靶标

功能	Catalyzes the rate-limiting step of the oxidative pentose-phosphate pathway, which represents a route for the dissimilation of carbohydrates besides glycolysis. The main function of this enzyme is to provide reducing power (NADPH) and pentose phosphates for fatty acid and nucleic acid synthesis.
组织特异性	Isoform Long is found in lymphoblasts, granulocytes and sperm.
通路	Carbohydrate degradation; pentose phosphate pathway; D-ribulose 5-phosphate from D-glucose 6-phosphate (oxidative stage): step 1/3.
疾病相关	Anemia, non-spherocytic hemolytic, due to G6PD deficiency
序列相似性	Belongs to the glucose-6-phosphate dehydrogenase family.
翻译后修饰	Acetylated by ELP3 at Lys-403; acetylation inhibits its homodimerization and enzyme activity. Deacetylated by SIRT2 at Lys-403; deacetylation stimulates its enzyme activity.

图片



All lanes : Anti-Glucose 6 Phosphate Dehydrogenase antibody (ab76598) at 1 µg/ml

Lane 1 : RAW 264.7 (Mouse leukaemic monocyte macrophage cell line) Whole Cell Lysate

Lane 2 : Human placenta tissue lysate - total protein ([ab29745](#))

Lane 3 : Human lymph node tissue lysate - total protein ([ab29871](#))

Lane 4 : Jurkat (Human T cell lymphoblast-like cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

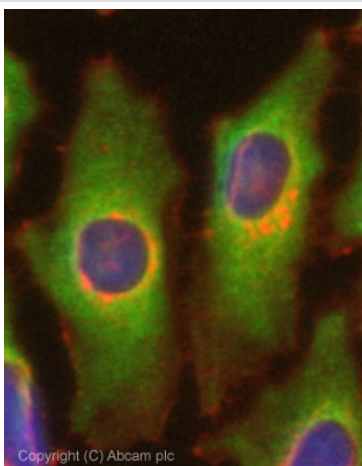
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 59 kDa

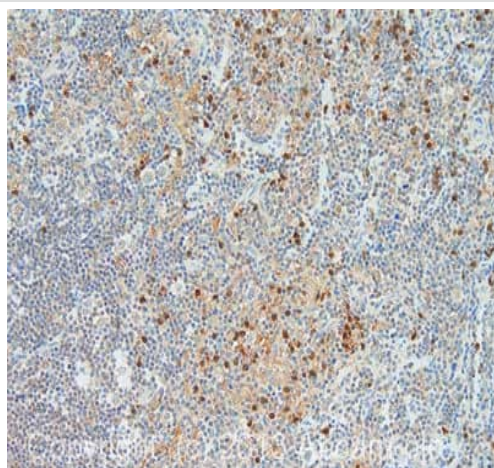
Observed band size: 59 kDa

Exposure time: 30 seconds



Immunocytochemistry/ Immunofluorescence - Anti-Glucose 6 Phosphate Dehydrogenase antibody (ab76598)

ICC/IF image of ab76598 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab76598, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 100% methanol fixed (5 min) Hek293, HepG2 and MCF7 cells at 1µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucose 6 Phosphate Dehydrogenase antibody (ab76598)

IHC image of Glucose 6 Phosphate staining in human Hodgkin's Lymphoma formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab76598, 0.2µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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