abcam

Product datasheet

Anti-PHGDH antibody ab57030

3 References 5 图像

概述

产品名称	Anti-PHGDH抗体
描述	**小鼠单克隆抗体to PHGDH**
经测试应用	**适用于:** WB, ICC/IF, IHC-P, Flow Cyt, IP
种属反应性	**与反应:** Human
免疫原	Recombinant full length protein, corresponding to amino acids 1-534 of Human PHGDH
常规说明	Abcam is committed to meeting high standards of ethical manufacturing and has decided to discontinue this product by June 2019 as it has been generated by the ascites method. We are sorry for any inconvenience this may cause. We would recommend antibody ab211365 as a replacement.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None PBS, pH 7.2
纯度	Protein G purified
克隆	单克隆
同种型	IgG1
轻链类型	kappa

应用

Our Abpromise guarantee covers the use of **ab57030** in the following tested applications.

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

应用	Ab评论	说明
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 57 kDa.

应用	Ab评论	说明
ICC/IF		Use a concentration of 10 µg/ml.
IHC-P		Use a concentration of 5 µg/ml.
Flow Cyt		Use 1µg for 10^6 cells. ab170190-Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IP		Use at an assay dependent concentration.

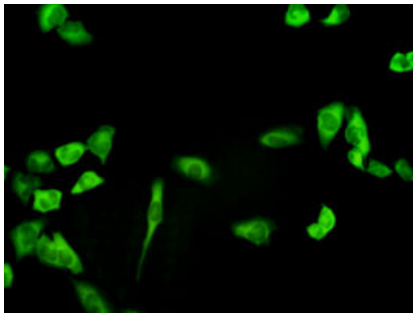
靶标

通路 Amino-acid biosynthesis; L-serine biosynthesis; L-serine from 3-phospho-D-glycerate: step 1/3.

疾病相关 Defects in PHGDH are the cause of phosphoglycerate dehydrogenase deficiency (PHGDH deficiency) [MIM:601815]. It is characterized by congenital microcephaly, psychomotor retardation, and seizures.

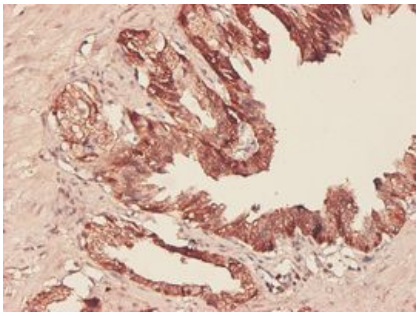
序列相似性 Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.

图片



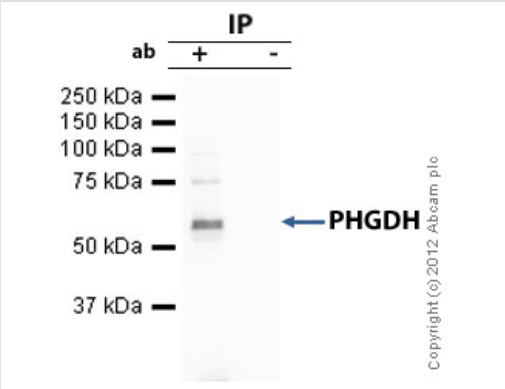
Immunofluorescence - PHGDH antibody (ab57030)

PHGDH antibody (ab57030) used in immunofluorescence at 1-5ug/ml on HeLa cells.



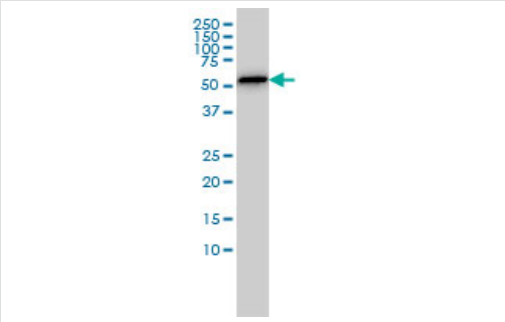
IHC-P - PHGDH antibody (ab57030)

PHGDH antibody (ab57030) used in immunohistochemistry at 5ug/ml on formalin fixed and paraffin embedded human lymph node.



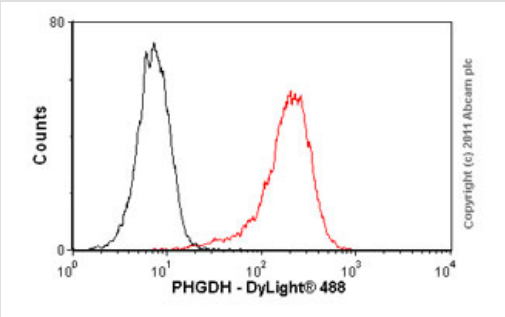
Immunoprecipitation - Anti-PHGDH antibody (ab57030)

PHGDH was immunoprecipitated using 0.5mg Jurkat whole cell extract, 10µg of Mouse monoclonal to PHGDH and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Jurkat whole cell extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{O}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab57030.
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/5000 dilution.
Band: 57kDa; PHGDH.



Western blot - PHGDH antibody (ab57030)

Predicted band size : 57 kDa



Flow Cytometry - Anti-PHGDH antibody (ab57030)

Overlay histogram showing HeLa cells stained with ab57030 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab57030, 1µg/1x10^6 cells) for 30 min at 22ºC. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22ºC. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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