

Product datasheet

Anti-PGK1 antibody ab233135

8 Images

Overview

Product name	Anti-PGK1 antibody
Description	Rabbit polyclonal to PGK1
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Horse, Cow, Pig, Chimpanzee, Cynomolgus monkey, Chinese hamster, Orangutan 
Immunogen	Recombinant full length protein (His-T7-tag) corresponding to Human PGK1 aa 2-417. Two N-terminal tags. Expressed in E.coli. Sequence: SLSNKLTDKLDVKGKRVVMRVDNFVPMKNNQITNNQ RIKAAVPSIKFCL DNGAKSVVLMShLGRPDGVPMPDKYSLEPVAVELKS LLGKDVLFLKDCVG PEVEKACANPAAGSVILLENLRFHVEEEGKGKDASGN KVKAEPKIEAFR ASLSKLGDVVYVNDAFGTAHRAHSSM/GVNLPQKAGG FLMKKELNYFAKAL ESPERPFLAILGGAKVADKIQLINMLDKVNEMIIGGGM AFTFLKVLNNM EIGTSLFDEEGAKV/KDLMSKAEEKNGVKITLPVDFVTAD KFDENAKTGQA TVASGIPAGWMGLDCGPESKKYAEAVTRAKQMWN GPVGVFEWEAFARG TKALMDEVVKATSRGCITIGGGDTATCCAkwNTEDKV SHVSTGGGASLE LLEGKVLPGVDALSNI Database link: P00558  Run BLAST with  Run BLAST with
Positive control	WB: Recombinant human PGK1 protein; HeLa, HepG2 and HEK-293T cell lysates. IHC-P: Human cerebrum, colorectal cancer, glioma, liver and kidney tissue. ICC/IF: HeLa cells.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
Purity	Immunogen affinity purified
Purification notes	Antigen-specific affinity chromatography followed by Protein A affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab233135** in the following tested applications.

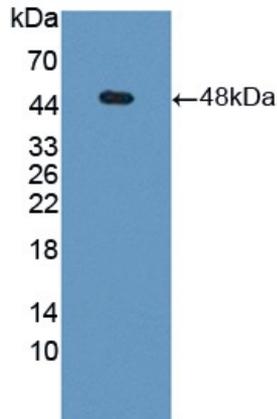
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 45 kDa.
ICC/IF		Use a concentration of 5 - 20 µg/ml.

Target

Function	In addition to its role as a glycolytic enzyme, it seems that PGK-1 acts as a polymerase alpha cofactor protein (primer recognition protein).
Pathway	Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 2/5.
Involvement in disease	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.
Sequence similarities	Belongs to the phosphoglycerate kinase family.
Cellular localization	Cytoplasm.

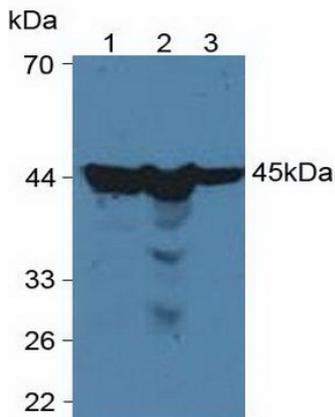
Images



Western blot - Anti-PGK1 antibody (ab233135)

Anti-PGK1 antibody (ab233135) at 2 µg/ml + Recombinant human PGK1 protein

Predicted band size: 45 kDa



Western blot - Anti-PGK1 antibody (ab233135)

All lanes : Anti-PGK1 antibody (ab233135) at 1 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

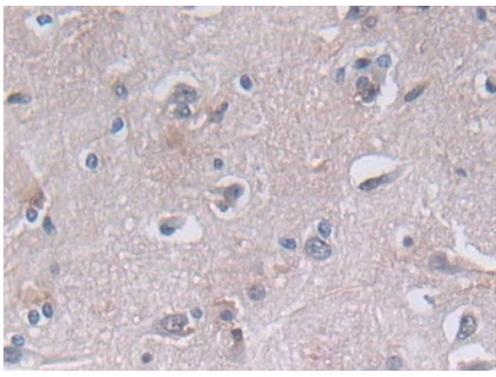
Lane 2 : HepG2 (human liver hepatocellular carcinoma cell line) cell lysate

Lane 3 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

Secondary

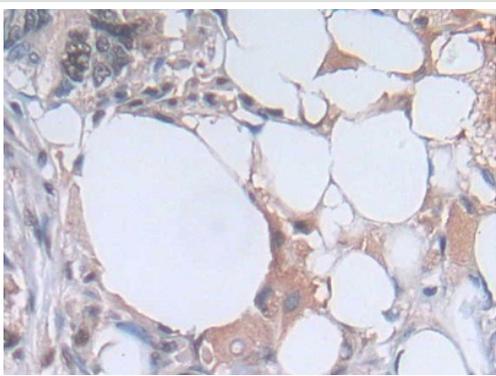
All lanes : HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 45 kDa



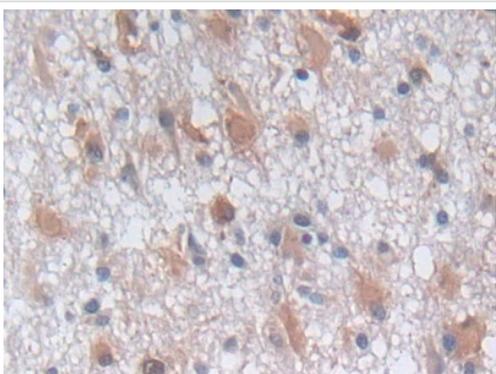
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human cerebrum tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



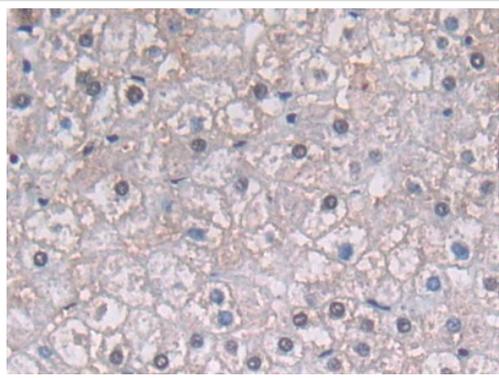
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human colorectal cancer tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



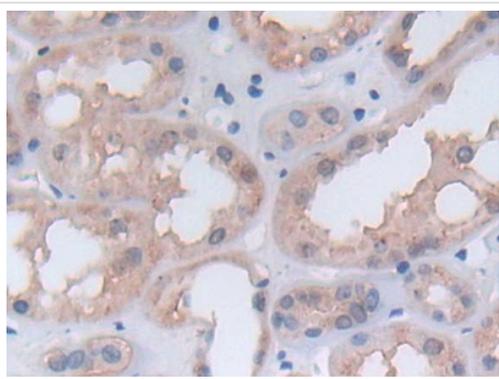
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human glioma tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



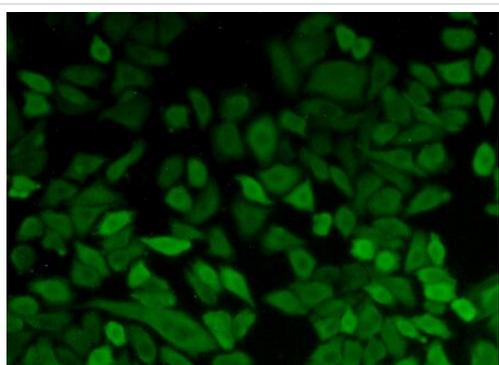
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human liver tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PGK1 antibody (ab233135)

Formalin-fixed, paraffin-embedded human kidney tissue stained for PGK1 using ab233135 at 20 µg/ml in immunohistochemical analysis. DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-PGK1 antibody (ab233135)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for PGK1 (green) using ab233135 at 20 µg/ml in ICC/IF. FITC labeling.

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