

# PFKL Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51425

## Product Information

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|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P17858</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 85018                  |

## Additional Information

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| Gene ID            | 5211                                                                                                                                                                                                                                                                                                                          |
| Other Names        | ATP-dependent 6-phosphofructokinase, liver type<br>{ECO:0000255 HAMAP-Rule:MF_03184}, ATP-PFK<br>{ECO:0000255 HAMAP-Rule:MF_03184}, PFK-L, 27111<br>{ECO:0000255 HAMAP-Rule:MF_03184}, 6-phosphofructokinase type B,<br>Phosphofructo-1-kinase isozyme B, PFK-B, Phosphohexokinase<br>{ECO:0000255 HAMAP-Rule:MF_03184}, PFKL |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PFKL. The exact sequence is proprietary.                                                                                                                                                                                           |
| Dilution           | WB~~ 1:1000                                                                                                                                                                                                                                                                                                                   |
| Format             | 0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%                                                                                                                                                                                                                                                                     |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                                                                                                                                     |

## Protein Information

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| Name              | PFKL ( <a href="#">HGNC:8876</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Function          | Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis (PubMed: <a href="#">22923583</a> ). Negatively regulates the phagocyte oxidative burst in response to bacterial infection by controlling cellular NADPH biosynthesis and NADPH oxidase-derived reactive oxygen species. Upon macrophage activation, drives the metabolic switch toward glycolysis, thus preventing glucose turnover that produces NADPH via pentose phosphate pathway (By similarity). |
| Cellular Location | Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03184}.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Background

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Catalyzes the third step of glycolysis, the phosphorylation of fructose-6-phosphate (F6P) by ATP to generate fructose-1,6-bisphosphate (FBP) and ADP.

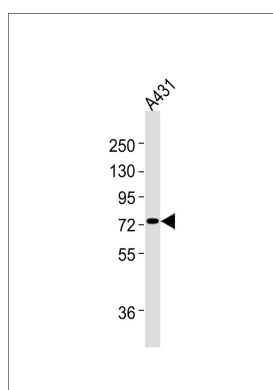
## References

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Levanon D.,et al.DNA 8:733-743(1989).  
Elson A.,et al.Genomics 7:47-56(1990).  
Hattori M.,et al.Nature 405:311-319(2000).  
Gevaert K.,et al.Nat. Biotechnol. 21:566-569(2003).  
Bienvenut W.V.,et al.Submitted (JUL-2009) to UniProtKB.

## Images

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Anti-PFKL Antibody at 1:1000 dilution + A431 whole cell lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 85 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.