

PFKL Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51425

Specification

PFKL Antibody - Product Information

Application	WB
Primary Accession	P17858
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80 KDa
Antigen Region	701 - 760

PFKL Antibody - Additional Information

Gene ID 5211

Other Names

ATP-dependent 6-phosphofructokinase, liver type {ECO:0000255|HAMAP-Rule:MF_03184},
ATP-PFK {ECO:0000255|HAMAP-Rule:MF_03184}, PFK-L, 27111
{ECO:0000255|HAMAP-Rule:MF_03184}, 6-phosphofructokinase type B, Phosphofructo-1-kinase
isozyme B, PFK-B, Phosphohexokinase {ECO:0000255|HAMAP-Rule:MF_03184}, PFKL

Target/Specificity

KLH conjugated synthetic peptide derived from human PFKL

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

PFKL Antibody - Protein Information

Name PFKL ([HGNC:8876](#))

Function

Catalyzes the phosphorylation of D-fructose 6-phosphate to fructose 1,6-bisphosphate by ATP, the first committing step of glycolysis (PubMed:22923583). 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

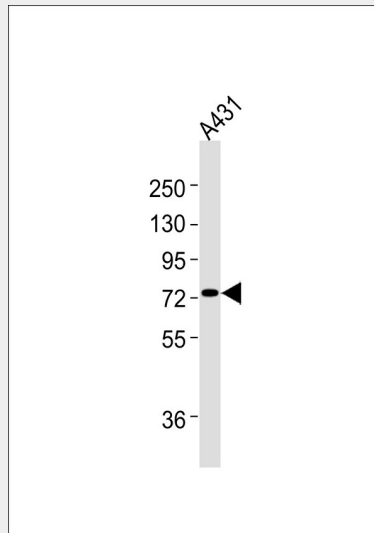
Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03184}.

PFKL Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PFKL Antibody - Images



Anti-PFKL Antibody at 1:1000 dilution + A431 whole cell lysates Lysates/proteins at 20 μ g 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.

PFKL Antibody - Background

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

PFKL Antibody - References

- 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.