Product Name: PFK-B Rabbit Polyclonal Antibody
Catalog #: APRab16015

Summary

Production Name	PFK-B Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PFKL
Alternative Names	PFKL; 6-phosphofructokinase; liver type; Phosphofructo-1-kinase isozyme B; PFK-B; Phosphofructokinase 1; Phosphohexokinase
Gene ID	5211.0
SwissProt ID	P17858.The antiserum was produced against synthesized peptide derived from human K6PL. AA range:691-740

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000..
Molecular Weight	85kD

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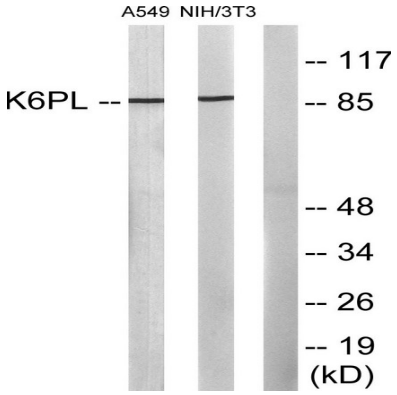
Background

This gene encodes the liver (L) subunit of an enzyme that catalyzes the conversion of D-fructose 6-phosphate to D-fructose 1,6-bisphosphate, which is a key step in glucose metabolism (glycolysis). This enzyme is a tetramer that may be composed of different subunits encoded by distinct genes in different tissues. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014],catalytic activity:ATP + D-fructose 6-phosphate = ADP + D-fructose 1,6-bisphosphate.,cofactor:Magnesium.,enzyme regulation:Allosteric enzyme activated by ADP, AMP, or fructose bisphosphate and inhibited by ATP or citrate.,miscellaneous:In human PFK exists as a system of 3 types of subunits, PFKM (muscle), PFKL (liver) and PFKP (platelet) isoenzymes.,pathway:Carbohydrate degradation; glycolysis; D-glyceraldehyde 3-phosphate and glycerone phosphate from D-glucose: step 3/4.,similarity:Belongs to the phosphofructokinase family. Two domains subfamily.,subunit:Tetramer. Muscle is M4, liver is L4, and red cell is M3L, M2L2, or ML3.,

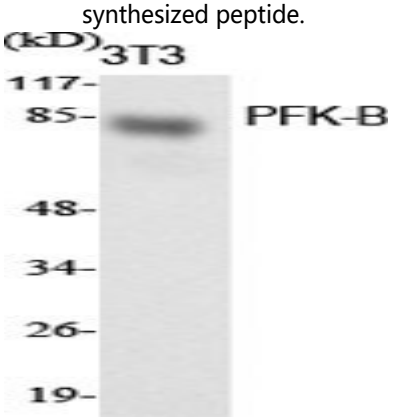
Research Area

Glycolysis / Gluconeogenesis;Pentose phosphate pathway;Fructose and mannose metabolism;Galactose metabolism;

Image Data



Western blot analysis of lysates from A549 and NIH/3T3 cells, using K6PL Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using PFK-B Polyclonal Antibody diluted at 1： 1000

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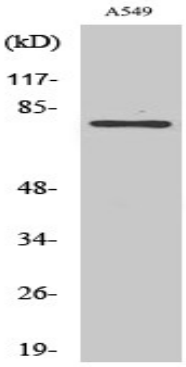

Western Blot analysis of NIH-3T3 cells using PFK-B Polyclonal Antibody diluted at 1：1000

Note

For research use only.