

Product Name: PFK-2 liv/tes Rabbit Polyclonal Antibody
Catalog #: AP Rab16014



Summary

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|------------------------|--|
| Production Name | PFK-2 liv/tes Rabbit Polyclonal Antibody |
| Description | Rabbit Polyclonal Antibody |
| Host | Rabbit |
| Application | WB,ELISA,IHC-P |
| Reactivity | Human,Mouse,Rat |

Performance

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|---------------------|--|
| 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

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|--------------------------|---|
| Gene Name | PFKFB1/PFKFB4 |
| Alternative Names | PFKFB1; F6PK; PFRX; 6-phosphofructo-2-kinase/fructose-2; 6-bisphosphatase 1; 6PF-2-K/Fru-2,6-P2ase 1; PFK/FBPase 1; 6PF-2-K/Fru-2,6-P2ase liver isozyme; PFKFB4; 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4; 6PF-2-K/Fru-2,6-P2ase 4; |
| Gene ID | 5207/5210 |
| SwissProt ID | P16118/Q16877.The antiserum was produced against synthesized peptide derived from human PFKFB1/4. AA range:331-380 |

Application

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|-------------------------|---|
| Dilution Ratio | WB 1:500-2000, IHC-P 1:50-300, ELISA 2000-20000 |
| Molecular Weight | 54kDa |

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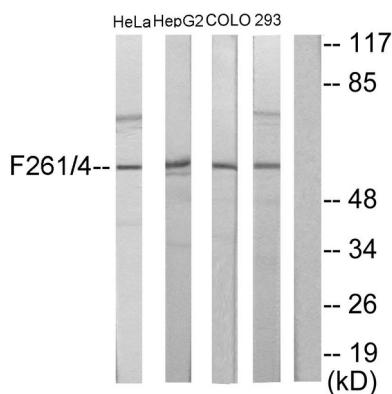
Background

This gene encodes a member of the family of bifunctional 6-phosphofructo-2-kinase:fructose-2,6-biphosphatase enzymes. The enzyme forms a homodimer that catalyzes both the synthesis and degradation of fructose-2,6-biphosphate using independent catalytic domains. Fructose-2,6-biphosphate is an activator of the glycolysis pathway and an inhibitor of the gluconeogenesis pathway. Consequently, regulating fructose-2,6-biphosphate levels through the activity of this enzyme is thought to regulate glucose homeostasis. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2012], catalytic activity: ATP + D-fructose 6-phosphate = ADP + beta-D-fructose 2,6-bisphosphate., catalytic activity: Beta-D-fructose 2,6-bisphosphate + H(2)O = D-fructose 6-phosphate + phosphate., enzyme regulation: Phosphorylation results in inhibition of the kinase activity., function: Synthesis and degradation of fructose 2,6-bisphosphate., similarity: In the C-terminal section; belongs to the phosphoglycerate mutase family., subunit: Homodimer., tissue specificity: Liver.,

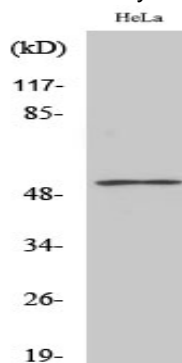
Research Area

Fructose and mannose metabolism;

Image Data



Western blot analysis of lysates from HeLa, HepG2, COLO205, and 293 cells, using PFKFB1/4 Antibody. The lane on the right is blocked with the synthesized peptide.





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Western Blot analysis of various cells using PFK-2 liv/tes Polyclonal Antibody

Note

For research use only.