

PFKFB2 polyclonal antibody

Catalog # PAB17256

Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of PFKFB2.
Immunogen	A synthetic peptide corresponding to human PFKFB2.
Sequence	SEQNNNSYETKTP-C
Host	Goat
Theoretical MW (kDa)	58.5, 54.4
Specificity	This antibody is expected to recognize both reported isoforms (NP_006203.2; NP_001018063.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:16000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PFKFB2

Entrez GeneID	5208
Protein Accession#	NP_006203.2;NP_001018063.1
Gene Name	PFKFB2
Gene Alias	DKFZp781D2217, MGC138308, MGC138310, PFK-2/FBPase-2
Gene Description	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2
Omim ID	171835
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is involved in both the synthesis and degradation of fructose-2,6-bisphosphate, a regulatory molecule that controls glycolysis in eukaryotes. The encoded protein has a 6-phosphofructo-2-kinase activity that catalyzes the synthesis of fructose-2,6-bisphosphate, and a fructose-2,6-biphosphatase activity that catalyzes the degradation of fructose-2,6-bisphosphate. This protein regulates fructose-2,6-bisphosphate levels in the heart, while a related enzyme encoded by a different gene regulates fructose-2,6-bisphosphate levels in the liver and muscle. This enzyme functions as a homodimer. Two transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 2[6PF-2-K/Fru-2,6-P2ASE heart-type isozyme OTTHUMP00000034285 OTTHUMP00000034286 PFKFB, cardiac fructose-2,6-bisphosphatase, cardiac isozyme]

Publication Reference

- [A role for PFK-2/FBPase-2, as distinct from fructose 2,6-bisphosphate, in regulation of insulin secretion in pancreatic beta-cells.](#)

Arden C, Hampson LJ, Huang GC, Shaw JA, Aldibbiat A, Holliman G, Manas D, Khan S, Lange AJ, Agius L.
The Biochemical Journal 2008 Apr; 411(1):41.

Pathway

- [Fructose and mannose metabolism](#)

Disease

- [Birth Weight](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)