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PFKFB1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8147a

Product Information

Application	WB, IHC-P, E
Primary Accession	P16118
Other Accession	P07953, P70266, P49872
Reactivity	Human, Mouse
Predicted	Bovine, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4035
Calculated MW	54681
Antigen Region	13-43

Additional Information

Gene ID	5207
Other Names	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, 6-phosphofructo-2-kinase, Fructose-2, 6-bisphosphatase, PFKFB1, F6PK, PFRX
Target/Specificity	This PFKFB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-43 amino acids from the N-terminal region of human PFKFB1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PFKFB1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PFKFB1 (HGNC:8872)
Synonyms	F6PK, PFRX

Function	Synthesis and degradation of fructose 2,6-bisphosphate.
Tissue Location	Liver.

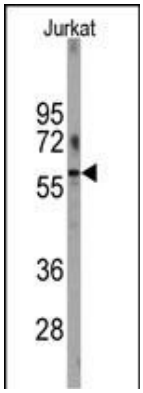
Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).

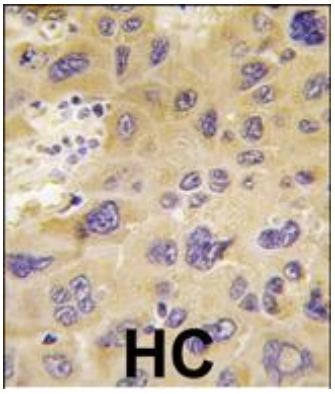
References

Algaier, J., et al., Biochem. Biophys. Res. Commun. 153(1):328-333 (1988). Lange, A.J., et al., Nucleic Acids Res. 18 (12), 3652 (1990).

Images



Western blot analysis of anti-PFKFB1 Antibody (N-term) (Cat.#AP8147a) in Jurkat cell line lysates (35ug/lane). PFKFB1(arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with PFKFB1 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.