

Datasheet for ABIN392769

anti-PFKFB2 antibody (N-Term)**2** Images**3** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	PFKFB2
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PFKFB2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PFKFB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human PFKFB2.
Clone:	RB4031-4032
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PFKFB2
Alternative Name:	PFKFB2 (PFKFB2 Products)

Target Details

Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ 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).
Molecular Weight:	58477
NCBI Accession:	NP_001018063 , NP_006203
UniProt:	O60825
Pathways:	PI3K-Akt Signaling , Positive Regulation of Peptide Hormone Secretion , Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C.
Expiry Date:	6 months

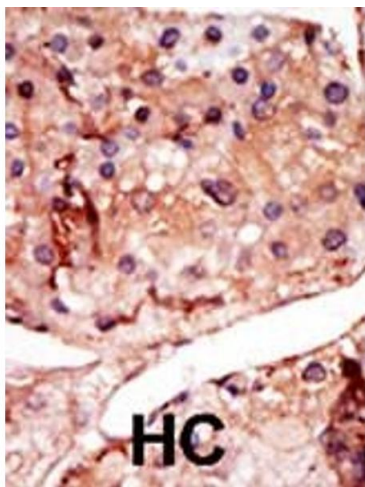
Publications

Product cited in: Xia, Hong, Ye, Wang, Chen, Liu: "Label-free quantitative proteomic analysis of right ventricular remodeling in infant Tetralogy of Fallot patients." in: **Journal of proteomics**, Vol. 84, pp. 78-91, (2013) ([PubMed](#)).

Carlet, Janjetovic, Rainer, Schmidt, Panzer-Grümayer, Mann, Prelog, Meister, Ploner, Kofler: "Expression, regulation and function of phosphofructo-kinase/fructose-biphosphatases (PFKFBs) in glucocorticoid-induced apoptosis of acute lymphoblastic leukemia cells." in: **BMC cancer**, Vol. 10, pp. 638, (2010) ([PubMed](#)).

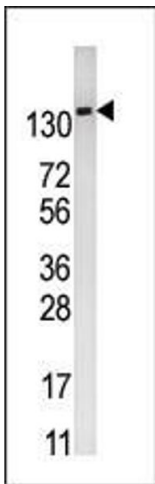
Yalcin, Clem, Simmons, Lane, Nelson, Clem, Brock, Siow, Wattenberg, Telang, Chesney: "Nuclear targeting of 6-phosphofructo-2-kinase (PFKFB3) increases proliferation via cyclin-dependent kinases." in: **The Journal of biological chemistry**, Vol. 284, Issue 36, pp. 24223-32, (2009) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, 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. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Western blot analysis of anti-PFKFB2 Pab (ABIN392769 and ABIN2842214) in mouse kidney tissue lysate (35 µg/lane). PFKFB2(arrow) was detected using the purified Pab