Datasheet for ABIN392744

anti-PFKP antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	PFKP
Binding Specificity:	AA 754-784, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PFKP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PFKP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 754-784 amino acids from the C-terminal region of human PFKP.
Clone:	RB03900
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PFKP
Alternative Name:	PFKP (PFKP Products)

Target Details

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).
Molecular Weight:	85596
Gene ID:	5214
NCBI Accession:	NP_001229268, NP_002618
UniProt:	Q01813
Pathways:	Warburg Effect

Application Details

Application Notes:	WB: 1:8000. 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 in small aliquots to prevent freeze-thaw cycles.

Handling

Expiry Date:	6 months

Publications

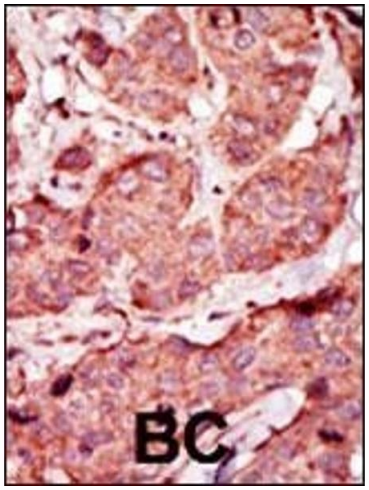
Product cited in:

Bao, Mukai, Hishiki, Kubo, Ohmura, Sugiura, Matsuura, Nagahata, Hayakawa, Yamamoto, Fukuda, Saya, Suematsu, Minamishima: "Energy management by enhanced glycolysis in G1-phase in human colon cancer cells in vitro and in vivo." in: **Molecular cancer research : MCR**, Vol. 11, Issue 9, pp. 973-85, (2013) (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).

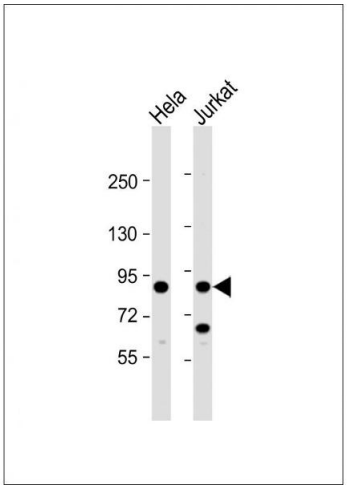
Moeller, Dumitrescu, Refetoff: "Cytosolic action of thyroid hormone leads to induction of hypoxia-inducible factor-1alpha and glycolytic genes." in: **Molecular endocrinology (Baltimore, Md.)**, Vol. 19, Issue 12, pp. 2955-63, (2005) (PubMed).

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 AEC 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. All lanes : Anti-PFKP Antibody at 1:8000 dilution Lane 1: Hela whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 86 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.