

Datasheet for ABIN392786

anti-PFKFB4 antibody (AA 266-296)

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Overview

Quantity:	400 µL
Target:	PFKFB4
Binding Specificity:	AA 266-296
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PFKFB4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PFKFB4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 266-296 amino acids from the Central region of human PFKFB4.
Clone:	RB04059
Isotype:	IgG
Predicted Reactivity:	Pr
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PFKFB4
Alternative Name:	PFKFB4 (PFKFB4 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:	54040
Gene ID:	5210
NCBI Accession:	NP_004558
UniProt:	Q16877

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:100. IHC-P: 1:250
Restrictions:	For Research Use only

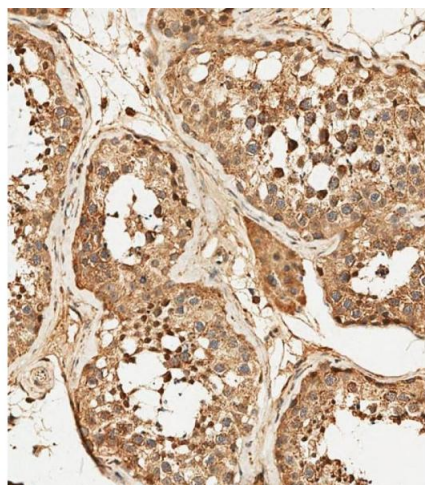
Handling

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.
Expiry Date:	6 months

Product cited in: Tokuji, Maeda, Yorimitsu, Osuka: "New synthetic strategy for diporphyrins: pinacol coupling-rearrangement." in: **Chemistry (Weinheim an der Bergstrasse, Germany)**, Vol. 17, Issue 26, pp. 7154-7, (2011) ([PubMed](#)).

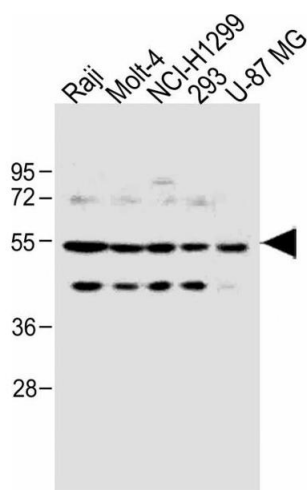
Hamzah, Kotamraju, Seo, Agemy, Fogal, Mahakian, Peters, Roth, Gagnon, Ferrara, Ruoslahti: "Specific penetration and accumulation of a homing peptide within atherosclerotic plaques of apolipoprotein E-deficient mice." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 108, Issue 17, pp. 7154-9, (2011) ([PubMed](#)).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. (ABIN392786 and ABIN2842224) staining PFKFB4 in human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/250) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Western Blotting

Image 2. All lanes : Anti-PFKFB4 Antibody (Center) at 1:1000 dilution Lane 1: Raji, whole cell lysate Lane 2: Molt-4 whole cell lysate Lane 3: NCI- whole cell lysate Lane 4: 293 whole cell lysate Lane 5: U-87 MG 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 : 54 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. (ABIN392786 and ABIN2842224) staining PFKFB4 in human skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Samples were incubated with primary antibody (1/100) for 1 hours at room temperature. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.