

Anti-PFKFB2 Antibody

CATALOG NO.: A1997-100 (100 µl)

BACKGROUND DESCRIPTION: 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-bisphosphatase 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.

ALTERNATE NAMES: 6-phosphofructo-2-kinase/fructose-2;6-bisphosphatase 2; 6PF-2-K/Fru-2;6-P2ase 2; PFK/FBPase 2; 6PF-2-K/Fru-2;6-P2ase heart-type isozyme

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: KLH-conjugated synthetic peptide targeting a sequence within the N-term region of human PFKFB2

MOLECULAR WEIGHT: 58 kDa

PURIFICATION: Affinity purified

FORM: Liquid

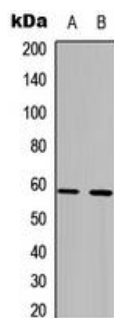
FORMULATION: In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

SPECIES REACTIVITY: Human, Monkey

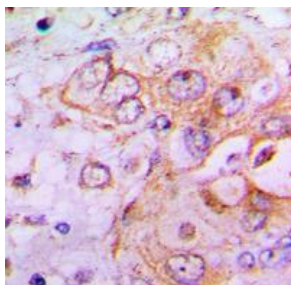
STORAGE CONDITIONS: Store at -20°C. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:500 - 1:1000, IHC 1:100 - 1:200, IF 1:100 - 1:500

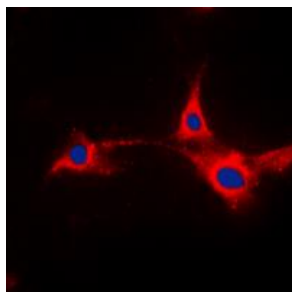
Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of PFKFB2 expression in HCT116 (A); NIH3T3 (B) whole cell lysates.



Immunohistochemical analysis of PFKFB2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0), then incubated with the antibody at RT and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.



Immunofluorescent analysis of PFKFB2 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at RT. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at RT in the dark. DAPI was used to stain the cell nuclei (blue).

RELATED PRODUCTS:

Akt/PKB Antibody (3247)

IRS-1 Antibody (3424)

Phospho PFKFB2 (Ser483) Antibody (A1958)

Anti-PCK1 Antibody (A1864)

FOR RESEARCH USE ONLY! Not to be used on humans.