Datasheet for ABIN7601627

anti-PFKFB2 antibody (AA 4-505)

Go to Product page

Overview

Quantity:	100 µg
Target:	PFKFB2
Binding Specificity:	AA 4-505
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PFKFB2 Antibody Picoband®
Immunogen:	E.coli-derived human PFKFB2 recombinant protein (Position: A4-D505).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PFKFB2 Antibody Picoband® (ABIN7601627). Tested in ELISA, Flow Cytometry, IF, ICC, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PFKFB2
Alternative Name:	PFKFB2 (PFKFB2 Products)
Background:	Synonyms: Long-chain-fatty-acid--CoA ligase 3,6.2.1.3,Long-chain acyl-CoA synthetase 3,LACS 3,ACSL3,ACS3, FACL3, LACS3, Tissue Specificity: Expressed in breast, ductal and invasive ductal carcinomas of the breast, sporadic colorectal adenomas and carcinomas (at protein level). Expressed in fetal brain. Expressed in lung, amygdala, eye, prostate, pancreatic and prostate cancers, head and neck tumors and embryonal tumor. Background: 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 is an enzyme that in humans is encoded by the PFKFB2 gene. 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-biphosphatase 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.
Molecular Weight:	58 kDa
Gene ID:	5208
UniProt:	O60825
Pathways:	PI3K-Akt Signaling, Positive Regulation of Peptide Hormone Secretion, Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Heine-Suner, D., Diaz-Guillen, M. A., de Villena, F. P.-M., Robledo, M., Benitez, J., Rodriguez de Cordoba, S. A high-resolution map of the regulator of the complement activation gene cluster on 1q32 that integrates new genes and markers. Immunogenetics 45: 422-427, 1997. 2. Heine-

Application Details

	Suner, D., Diaz-Guillen, M. A., Lange, A. J., Rodriguez de Cordoba, S. Sequence and structure of the human 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase heart isoform gene (PFKFB2). Europ. J. Biochem. 254: 103-110, 1998. 3. Hilliker, C. E., Darville, M. I., Aly, M. S., Chikri, M., Szpirer, C., Marynen, P., Rousseau, G. G., Cassiman, J.-J. Human and rat chromosomal localization of two genes for 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase by analysis of somatic cell hybrids and in situ hybridization. Genomics 10: 867-873, 1991.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.