BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-PFKFB3 Antibody Picoband®

Catalog Number: A02382-2

About PFKFB3

The protein encoded by this gene belongs to a family of bifunctional proteins that are 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 (F2,6BP), and a fructose-2,6-biphosphatase activity that catalyzes the degradation of F2,6BP. This protein is required for cell cycle progression and prevention of apoptosis. It functions as a regulator of cyclin-dependent kinase 1, linking glucose metabolism to cell proliferation and survival in tumor cells. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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Overview

Product Name	Anti-PFKFB3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PFKFB3 Antibody Picoband® catalog # A02382-2. Tested in WB, ICC/IF 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.
Application	IF, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Rabbit
Uniprot ID	Q16875

Technical Details

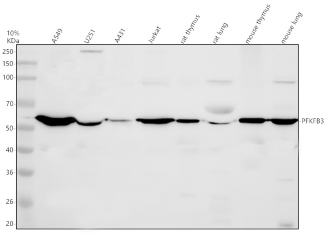
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human PFKFB3.(VEEQNLKDLRVWTSQLKSTI).

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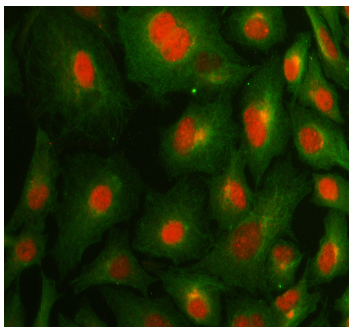
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human

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Anti-PFKFB3 Antibody Picoband® (A02382-2) Images



Western blot analysis of PFKFB3 using anti-PFKFB3 antibody (A02382-2). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A549 whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human Jurkat whole cell lysates, Lane 5: rat thymus tissue lysates, Lane 6: rat lung tissue lysates, Lane 7: mouse thymus tissue lysates, Lane 8: mouse lung tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PFKFB3 antigen affinity purified polyclonal antibody (A02382-2) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PFKFB3 at approximately 60 kDa. The expected band size for PFKFB3 is at 60 kDa.



IF analysis of PFKFB3 using anti-PFKFB3 antibody (A02382-2) and anti-Alpha Tubulin antibody (M03989-3). PFKFB3 was detected in an immunocytochemical section of A549 cells. The cells were permeabilized with 0.1% Triton X-100 for 10 minutes at room temperature and blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-PFKFB3 Antibody (A02382-2) and mouse anti-Alpha Tubulin antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and Fluoro488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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