

## Anti-PI 3 Kinase p85 beta/PIK3R2 Antibody Picoband®

Catalog Number: PB9777

### About PIK3R2

PIK3R2 (Phosphatidylinositol 3-kinase, regulatory subunit 2), also called p85-Beta, is an enzyme that in humans is encoded by the PIK3R2 gene. The PIK3R2 gene is mapped on 19p13.11. Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene.

### Overview

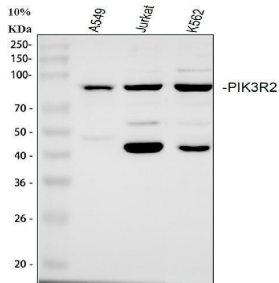
|                      |  |
|----------------------|--|
| Product Name         | Anti-PI 3 Kinase p85 beta/PIK3R2 Antibody Picoband®  |
| Reactive Species     | Human  |
| Description          | Boster Bio Anti-PI 3 Kinase p85 beta/PIK3R2 Antibody Picoband® catalog # PB9777. Tested in WB, Flow Cytometry applications. This antibody reacts with Human. 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          | Flow Cytometry, WB   |
| Clonality            | Polyclonal   |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .   |
| Storage Instructions | 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.  |
| Host                 | Rabbit   |
| Uniprot ID           | O00459   |

### Technical Details

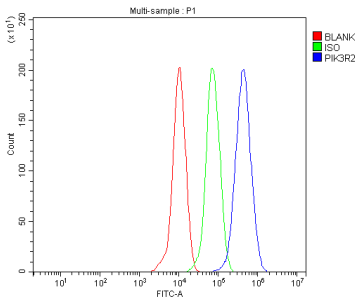
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|-------------------------------|--|
| Immunogen                     | A synthetic peptide corresponding to a sequence in the middle region of human PIK3R2, different from the related mouse sequence by two amino acids, and from the related rat sequence by one amino acid. |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.  |
| Cross Reactivity              | No cross-reactivity with other proteins.   |
| Isotype                       | Rabbit IgG   |
| 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, 0.1-0.5ug/ml, Human, Mouse, Rat<br>Flow Cytometry(Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human |

## Anti-PI 3 Kinase p85 beta/PIK3R2 Antibody Picoband® (PB9777) Images



Western blot analysis of PIK3R2 using anti-PIK3R2 antibody (PB9777). 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 Jurkat whole cell lysates, Lane 3: human K562 whole cell 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-PIK3R2 antigen affinity purified polyclonal antibody (Catalog # PB9777) 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 PIK3R2 at approximately 82 kDa. The expected band size for PIK3R2 is at 82 kDa.



Flow Cytometry analysis of THP-1 cells using anti-PIK3R2 antibody (PB9777). Overlay histogram showing THP-1 cells stained with PB9777 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PIK3R2 Antibody (PB9777, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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