

## Anti-PI 3 Kinase p85 alpha/PIK3R1 Antibody Picoband®

Catalog Number: PA1410

### About PIK3R1

Phosphatidylinositol 3-kinase regulatory subunit alpha is an enzyme that in humans is encoded by the PIK3R1 gene. Its gene is mapped to 5q13. The bovine PI3K p85 subunit consists of 2 closely related proteins, p85-alpha and p85-beta. They cloned cDNAs encoding both p85 subunits, each of which is a 724-amino acid polypeptide. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance.

### Overview

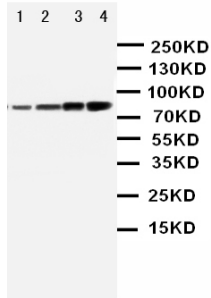
Product Name	Anti-PI 3 Kinase p85 alpha/PIK3R1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PI 3 Kinase p85 alpha/PIK3R1 Antibody catalog # PA1410. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P27986

### Technical Details

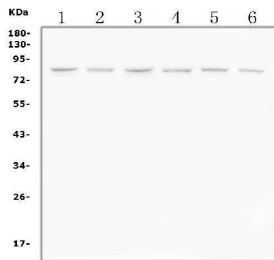
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PI 3 Kinase p85 alpha, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	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, Rat, Mouse

## Anti-PI 3 Kinase p85 alpha/PIK3R1 Antibody Picoband® (PA1410) Images



Anti-PI 3 Kinase p85 alpha antibody, PA1410, Western blotting Lane 1: MCF-7 Cell Lysate Lane 2: HELA Cell Lysate Lane 3: COLO-320 whole cell lysate Lane 4: SW620 Cell Lysate



Western blot analysis of PI 3 Kinase p85 alpha using anti-PI 3 Kinase p85 alpha antibody (PA1410). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates Lane 2: rat lung tissue lysates Lane 3: rat PC-12 whole cell lysates Lane 4: mouse brain tissue lysates Lane 5: mouse HEPA1-6 whole cell lysates Lane 6: mouse RAW246.7 whole cell lysates After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PI 3 Kinase p85 alpha antigen affinity purified polyclonal antibody (Catalog # PA1410) 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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for PI 3 Kinase p85 alpha at approximately 85KD. The expected band size for PI 3 Kinase p85 alpha is at 85KD.

## 2 Publications Citing This Product

1. PubMed ID: -, Ren,K.,Chi,X.,Wu,T.et al.Preliminary Study on the Antibacterial and Cytotoxic Effects of the Synthetic New Peptide NJP9-A.Int J Pept Res Ther(2021).<https://doi.org/10.1007/s10989-021-10246-4>
2. PubMed ID: 28752099, Expressions Profiles of the Proteins Associated with Carbohydrate Metabolism in Rat Liver Regeneration

Visit [bosterbio.com/anti-pi-3-kinase-p85-alpha-antibody-pa1410-boster.html](https://www.bosterbio.com/anti-pi-3-kinase-p85-alpha-antibody-pa1410-boster.html) to see all 2 publications.

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