

Anti-PI 3 Kinase catalytic subunit alpha/PIK3CA Antibody Picoband™

Catalog Number: PB9314

About PIK3CA

Phosphatidylinositol-4,5-bisphosphate 3-kinase, also called PIK3CA, is composed of an 85 kDa regulatory subunit and a 110 kDa catalytic subunit. PIK3CA gene is mapped to 3q26.32. The protein encoded by this gene represents the catalytic subunit, which uses ATP to phosphorylate phosphatidylinositols (PtdIns), PtdIns4P and PtdIns (4,5)P2. Recent evidence has shown that the PIK3CA gene is mutated in a range of human cancers. It has been found to be oncogenic and has been implicated in cervical cancers. PIK3CA mutations in breast cancer may be a predictive marker to guide the selection of patients who would benefit from mTOR inhibitor therapy. In addition to that, the presence of PIK3CA mutation may predict response to aspirin therapy for colorectal cancer, indicating power and promise of "Molecular Pathological Epidemiology (MPE)" approach as well as a complex interaction within the tumor microenvironment in this phenomenon.

Overview

Product Name	Anti-PI 3 Kinase catalytic subunit alpha/PIK3CA Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-PI 3 Kinase catalytic subunit alpha/PIK3CA Antibody Picoband™ catalog # PB9314. Tested in WB applications. This antibody reacts with Human, Rat.
Application	WB
Clonality	Polyclonal WH-3
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	P42336

Technical Details

Immunogen	E.coli-derived human PIK3CA recombinant protein (Position: H936-N1068). Human PIK3CA shares 98% amino acid (aa) sequence identity with mouse PIK3CA.
Predicted Reactive Species	Bovine, Canine, Chicken, Horse, Monkey, Rabbit
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross reactivity with other proteins
Form	Lyophilized

Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Human, Rat

Anti-PI 3 Kinase catalytic subunit alpha/PIK3CA Antibody Picoband™ (PB9314) Images



Anti-PIK3CAPicoband antibody, PB9314, Western blotting
All lanes: Anti PIK3CA (PB9314) at 0.5ug/ml
Lane 1: SW620 Whole Cell Lysate at 40ug
Lane 2: PC12 Whole Cell Lysate at 40ug
Predicted bind size: 110KD
Observed bind size: 110KD

1 Publications Citing This Product

1. PubMed ID: 25352008, Wang Q, Sun X, Li X, Dong X, Li P, Zhao L. Mol Med Rep. 2015 Jan;11(1):151-8. Doi: 10.3892/Mmr.2014.2762. Epub 2014 Oct 23. Resveratrol Attenuates Intermittent Hypoxia-Induced Insulin Resistance In Rats: Involvement Of Sirtuin 1 And The Phosphatid...

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