

Anti-PI 3 Kinase catalytic subunit alpha/PIK3CA Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9314-Fluoro488

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® Fluoro488 Conjugated
Reactive Species	Human
Application	Flow Cytometry
Clonality	Polyclonal WH-3
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
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
Cross Reactivity	No cross reactivity with other proteins
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro488

	Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

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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