

## Anti-Phospho-PI3 Kinase p110 Alpha/PIK3CA (Y317) Antibody

Catalog Number: P00029

### 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-Phospho-PI3 Kinase p110 Alpha/PIK3CA (Y317) Antibody  |
| Reactive Species     | Human, Mouse, Rat  |
| Description          | Boster Bio Anti-Phospho-PI3 Kinase p110 Alpha/PIK3CA (Y317) Antibody catalog # P00029. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.   |
| Application          | WB   |
| Clonality            | Polyclonal   |
| Formulation          | 500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg stabilizing protein and 50% glycerol<br>This antibody is supplied in a stabilized formulation.<br>Compatibility with conjugation reactions depends on the chemistry of the conjugation method used.<br>For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required. |
| Storage Instructions | 12 months from date of receipt at -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.  |
| Host                 | Rabbit   |
| Uniprot ID           | P42336   |

### Technical Details

|               |  |
|---------------|--|
| Immunogen     | A synthesized peptide derived from human PIK3CA around the phosphorylation site of Tyr317. |
| Form          | Liquid   |
| Concentration | 500 ug/ml  |
| Purification  | Protein A affinity purified.   |

Suggested Dilutions

Western blot, 1:500-2000

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