

# CoraLite®594-conjugated PI3 Kinase p110 Beta Monoclonal antibody

Catalog Number: **CL594-67121**

## Basic Information

|   |   |   |
|---|---|---|
| <b>Catalog Number:</b><br>CL594-67121       | <b>GenBank Accession Number:</b><br>BC114432                                | <b>Purification Method:</b><br>Protein G purification             |
| <b>Size:</b><br>1000 µg/ml                  | <b>GeneID (NCBI):</b><br>5291   | <b>CloneNo.:</b><br>1B2A1   |
| <b>Source:</b><br>Mouse                     | <b>UNIPROT ID:</b><br>P42338  | <b>Recommended Dilutions:</b><br>IF/ICC 1:50-1:500                |
| <b>Isotype:</b><br>IgG1                     | <b>Full Name:</b><br>phosphoinositide-3-kinase, catalytic, beta polypeptide | <b>Excitation/Emission maxima wavelengths:</b><br>588 nm / 604 nm |
| <b>Immunogen Catalog Number:</b><br>AG17505 | <b>Calculated MW:</b><br>1070 aa, 123 kDa                                   |   |
|   | <b>Observed MW:</b><br>120-130 kDa  |   |

## Applications

|   |   |
|---|---|
| <b>Tested Applications:</b><br>IF/ICC     | <b>Positive Controls:</b><br>IF/ICC : HeLa cells, |
| <b>Species Specificity:</b><br>Human, Rat |   |

## Background Information

PIK3CB(phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform) is also named as PIK3C1, PI3K-beta, p110beta. The gene encodes a 1070 amino acid protein which belongs to the PI3/PI4-kinase family. Phosphoinositide 3-kinases (PI3Ks) have been implicated as participants in signaling pathways regulating cell growth by virtue of their activation in response to various mitogenic stimuli. The class I PI3 kinases are heterodimers composed of 110 kDa catalytic subunits that associate with regulatory adaptor proteins. Four class I catalytic subunits have been identified, PIK3CA (p110 $\alpha$ ), PIK3CB (p110 $\beta$ ), PIK3CD (p110 $\delta$ ) and PIK3CG (p110 $\gamma$ ) (PMID:19177002).

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

For technical support and original validation data for this product please contact:

T: 4006900926

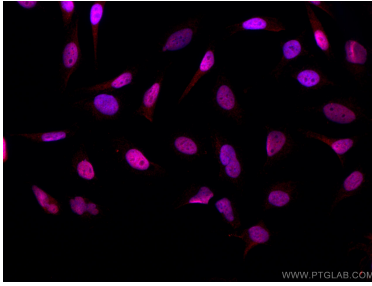
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CoraLite®594 PI3 Kinase p110 Beta antibody (CL594-67121, Clone: 1B2A1 ) at dilution of 1:200. DAPI (blue).