

For Research Use Only

# CoraLite® Plus 647-conjugated PI3 Kinase p110 Beta Polyclonal antibody

Catalog Number: CL647-20584

Featured Product



## Basic Information

### Catalog Number:

CL647-20584

### Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_006219

### GeneID (NCBI):

5291

### UNIPROT ID:

P42338

### Full Name:

phosphoinositide-3-kinase, catalytic, beta polypeptide

### Calculated MW:

123 kDa

### Observed MW:

110-130 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

FC (Intra): 0.20 ug per 10<sup>6</sup> cells in a 100 µl suspension

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### Excitation/Emission maxima wavelengths:

654 nm / 674 nm

## Applications

### Tested Applications:

FC (Intra)

### Species Specificity:

human, rat

### Positive Controls:

FC (Intra) : HeLa cells,

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## 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 (p110α), PIK3CB (p110β), PIK3CD (p110δ) and PIK3CG (p110γ) (PMID:19177002). This antibody is specific to PIK3CB.

## Storage

### Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

### Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

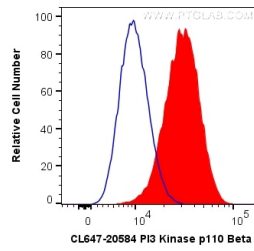
For technical support and original validation data for this product please contact:

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## Selected Validation Data



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug Coralite® Plus 647 Anti-Human PI3 Kinase p110 Beta (CL647-20584) (red), or 0.2 ug isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).