

## Datasheet for ABIN968316 anti-PIK3CD antibody (AA 73-90)



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4 Images

1 Publication

### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 50 µg  |
| Target:              | PIK3CD   |
| Binding Specificity: | AA 73-90                                       |
| Reactivity:          | Mouse, Rat                                     |
| Host:                | Mouse  |
| Clonality:           | Monoclonal                                     |
| Conjugate:           | This PIK3CD antibody is un-conjugated          |
| Application:         | Western Blotting (WB), Immunofluorescence (IF) |

### Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | Mouse PI3 Kinase p110delta aa. 73-90   |
| Clone:            | 29-PI3 Kinase p110delta  |
| Isotype:          | IgG1   |
| Cross-Reactivity: | Rat (Rattus)   |
| Characteristics:  | <ol style="list-style-type: none"> <li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li> <li>2. Please refer to us for technical protocols.</li> <li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li> <li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li> </ol> |
| Purification:     | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity  |

## Product Details

chromatography.

## Target Details

|                   |  |
|-------------------|--|
| Target:           | PIK3CD   |
| Alternative Name: | PI3-Kinase p110 delta ( <a href="#">PIK3CD Products</a> )  |
| Background:       | <p>Phosphoinositide 3 Kinase (PI3 Kinase) phosphorylates the D-3 position of the inositol ring of phosphatidylinositol, producing PtdIns(3)P, PtdIns(3,4)P2, and PtdIns (3,4,5)P3. PI3-kinase is a heterodimer of an 85 kDa regulatory subunit (p85) containing two SH2 domains and an SH3 domain, and a 110 kDa catalytic subunit (p110). Four isoforms of p110 have been identified (alpha , beta , gamma, and delta). The p110alpha, beta isoforms are distributed ubiquitously. The p110delta isoform is found exclusively in lymphocytes and lymphoid tissues. Lymphocytes also contains p110alpha and both isoforms interact with p85 and are recruited to activated signaling complexes. However, several biochemical and structural differences distinguish p110delta. Unlike p110alpha, p110delta autophosphorylates and does not phosphorylate p85. In addition, p110delta contains a Pro-rich region, which endows it with the potential for interaction with SH3 domain-containing proteins, and a bZIP-like domain, which is a common transcription factor domain that has also been identified in certain protein kinases. With the established role of PI3-Ks in cytoskeletal rearrangements, it is thought that p110delta contributes specifically to the regulation of lymphocytes extravasation into tissues. There is a high degree of homology in the immunogen region with the P110beta form (77%), and it is likely that our antibody will detect both the beta and delta forms.</p> |
| Molecular Weight: | 110 kDa  |
| Pathways:         | <a href="#">BCR Signaling</a> , <a href="#">Warburg Effect</a>   |

## Application Details

|               |  |
|---------------|--|
| Comment:      | Related Products: ABIN968545, ABIN967389 |
| Restrictions: | For Research Use only                    |

## Handling

|                |   |
|----------------|---|
| Format:        | Liquid  |
| Concentration: | 250 µg/mL   |
| Buffer:        | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide. |

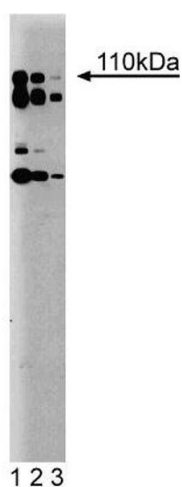
## Handling

|                    |  |
|--------------------|--|
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage:           | -20 °C   |
| Storage Comment:   | Store undiluted at -20° C.   |

## Publications

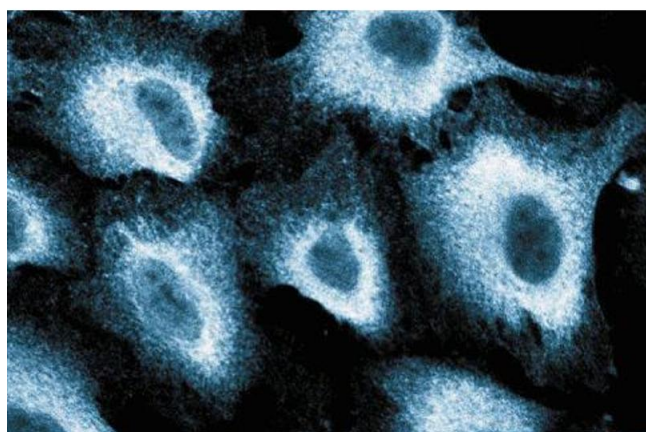
|                   |  |
|-------------------|--|
| Product cited in: | Chantry, Vojtek, Kashishian, Holtzman, Wood, Gray, Cooper, Hoekstra: "p110delta, a novel phosphatidylinositol 3-kinase catalytic subunit that associates with p85 and is expressed predominantly in leukocytes." in: <b>The Journal of biological chemistry</b> , Vol. 272, Issue 31, pp. 19236-41, (1997) ( <a href="#">PubMed</a> ). |
|-------------------|--|

## Images



### Western Blotting

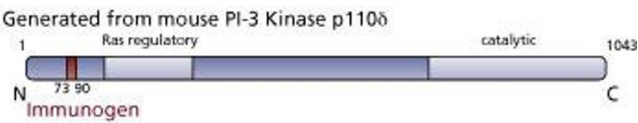
**Image 1.** Western blot analysis of PI3-Kinase p110delta on a rat cerebrum lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti- PI3-Kinase p110delta antibody.



### Immunofluorescence

**Image 2.** Immunofluorescence staining of human endothelial cells.

Image 3.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968316.