Datasheet for ABIN6657601

# anti-PIK3CD antibody (C-Term)

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## Overview

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| Quantity: | 100 µL |
| Target: | PIK3CD |
| Binding Specificity: | C-Term |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIK3CD antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB) |

## Product Details

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| Immunogen: | Immunogen: This antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the C-terminal of mouse PI3K p110d. This sequence is identical in both mouse and human.<br>Immunogen Type: Peptide |
| Cross-Reactivity: | Human, Mouse (Murine) |
| Cross-Reactivity (Details): | Cross reactivity is expected against the human protein as the sequence of the immunogen is 100 % identical in both human and mouseCross reactivity is also expected against rat PI3K p110d. |
| Purification: | This antibody was prepared from whole rabbit antiserum by delipidation and defibrination. Reactivity occurs against mouse PI3K p110d subunit. Cross reactivity is expected against the human protein as the sequence of the immunogen is 100% identical in both human and mouse. |

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## Product Details

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| | Cross reactivity is also expected against rat PI3K p110d. |

## Target Details

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| Target: | PIK3CD |
| Alternative Name: | PI3-kinase p110 delta (PIK3CD Products) |
| Background: | Synonyms: rabbit anti-PI3-kinase p110 delta Antibody, p110D antibody, p110delta antibody, Phosphatidylinositol 3 kinase catalytic delta polypeptide antibody, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit delta isoform antibody, PI3K antibody, PIK3CD antibody Background: Phosphoinositide 3-kinases (PI3Ks) generate 3-phosphoinositide lipids in cell membranes. A variety of intracellular target proteins interact with these lipids via specific lipid-binding modules and, as a consequence, undergo changes in their localization and/or activity. In this way, PI3Ks participate in the regulation of mitogenesis, differentiation, survival, intracellular vesicular transport, cytoskeletal reorganization, and motility. Tyrosine kinases and Ras use PI3Ks as essential intracellular signal relay molecules. PI3Ks are heterodimeric enzymes consisting of a regulatory subunit in complex with a p110 catalytic subunit. Mammmals have genes encoding three distinct catalytic subunits (p110α, p110ß, and p110δ and three regulatory subunits (p85α, p85ß, and p55δ). All of the p110 isoforms are capable of interacting with each type of regulatory subunit. They are also similarly recruited to phosphotyrosine complexes and have, at least in vitro, the same lipid substrate specificity. However, it is becoming increasingly clear that PI3K isoforms differ in their interaction with Ras and regulation of lipid kinase activity, and in their protein kinase activities. Several groups have provided evidence that p110 isoforms have nonredundant functions in the regulation of cell proliferation, survival, actin cytoskeleton reorganization, and migration downstream of given receptors. This antibody is specific for the carboxy teminal end of p110d that is expressed predominantly in leukocytes.<br>Gene Name: PIK3CD |
| Gene ID: | 18707 |
| UniProt: | O35904 |
| Pathways: | BCR Signaling, Warburg Effect |

## Application Details

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| Application Notes: | Application Note: This antibody has been tested for use in ELISA, western blotting and immunoprecipitation. Reactivity in other immunoassays is unknown. A mouse whole cell |

## Application Details

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| | splenic lysate is suitable for use as a positive control.<br>ELISA Dilution: 1:4,000 - 1:20,000<br>Western Blot Dilution: 1:5,000 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2<br>0.01 % (w/v) Sodium Azide<br>Stabilizer: None |
| 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: | RT,4 °C,-20 °C |
| Storage Comment: | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |

## Publications

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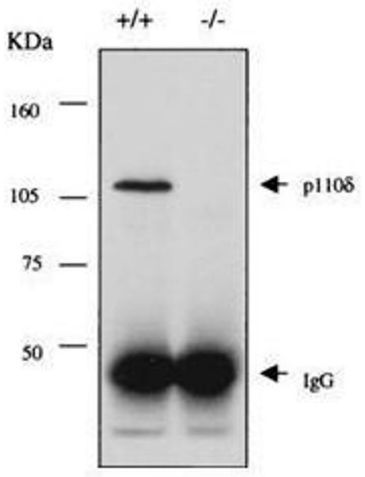
| Product cited in: | Jou, Carpino, Takahashi, Piekorz, Chao, Carpino, Wang, Ihle: "Essential, nonredundant role for the phosphoinositide 3-kinase p110delta in signaling by the B-cell receptor complex." in: **Molecular and cellular biology**, Vol. 22, Issue 24, pp. 8580-91, (2003) (PubMed). |




## Western Blotting

**Image 1.** Anti-PI3K p110d Antibody - Western Blot Immunoprecipitation and western blot using ROCKLAND Immunochemical's Rabbit-anti-PI3K p110d antibody. Lane 1 shows the detection of a single band corresponding to mouse p110d detected in a lysate from p110d +/+ mice (lane 1) and the absence of staining in a similar lysate isolated from p110d -/- mice (lane 2). Molecular weight markers confirm a MW of ~120 kDa. In both instances 2 mg of a total splenic lysate was used for immunoprecipitation and western blot analysis. For IP use ~5 µl of antiserum. For WB use a 1:5,000 dilution of antiserum. Detection occurs using a 1:2,000 dilution of HRP Goat-a-Rabbit IgG with visualization via ECL. Film exposure approximately 45''. Other detection systems will yield similar results. See Jou et al for additional details.

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