## ANTIBODIES ONLINE

## Datasheet for ABIN6657601 anti-PIK3CD antibody (C-Term)

1 Image

1 Publication



## Overview

Quantity:	100 μL
Target:	PIK3CD
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3CD antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)
Product Details	
Purpose:	PI3-kinase p110 delta Antibody
Purpose: Immunogen:	PI3-kinase p110 delta AntibodyThis antibody was prepared from whole rabbit serum produced by repeated immunizationswith a synthetic peptide corresponding to a region near the C-terminal of mouse PI3K p110d.This sequence is identical in both mouse and human.
·	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.
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.
Immunogen: Isotype:	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. IgG

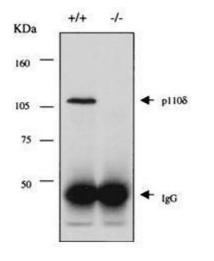
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6657601 | 01/21/2025 | Copyright antibodies-online. All rights reserved.

Target Details	
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 (p110a, p110ß, and p110 $\delta$
	and three regulatory subunits (p85a, 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.
	Gene Name: PIK3CD
Gene ID:	18707
UniProt:	035904
Pathways:	BCR Signaling, Warburg Effect
Application Details	
	ELISA Dilution: 1:4,000 1:20,000
Application Notes:	ELISA_Dilution: 1:4,000 - 1:20,000
	Western_Blot_Dilution: 1:5,000
	Other: User Optimized
Comment:	Anti-PI3 kinase p110 delta subunit antibody has been tested for use in ELISA, western blotting

and immunoprecipitation. Reactivity in other immunoassays is unknown. A mouse whole cell

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6657601 | 01/21/2025 | Copyright antibodies-online. All rights reserved.

Application Details	
	splenic lysate is suitable for use as a positive control.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	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.
Expiry Date:	12 months
Publications	
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: <b>Molecular and cellular biology</b> , 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  ${\sim}5~\mu l$  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.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN6657601 | 01/21/2025 | Copyright antibodies-online. All rights reserved.