

Datasheet for ABIN6258303
anti-PIK3C2A antibody (C-Term)



[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | PIK3C2A |
| Binding Specificity: | C-Term |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIK3C2A antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

| | |
|-----------------------|---|
| Immunogen: | A synthesized peptide derived from human PI 3 Kinase Class 2A, corresponding to a region within C-terminal amino acids. |
| Isotype: | IgG |
| Specificity: | PI 3 Kinase Class 2A Antibody detects endogenous levels of total PI 3 Kinase Class 2A. |
| Predicted Reactivity: | Pig,Zebrafish,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus |
| Purification: | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

Target Details

| | |
|---------|---------|
| Target: | PIK3C2A |
|---------|---------|

Target Details

Alternative Name: PIK3C2A ([PIK3C2A Products](#))

Background: Description: Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P₂) that act as second messengers. Has a role in several intracellular trafficking events. Functions in insulin signaling and secretion. Required for translocation of the glucose transporter SLC2A4/GLUT4 to the plasma membrane and glucose uptake in response to insulin-mediated RHOQ activation. Regulates insulin secretion through two different mechanisms: involved in glucose-induced insulin secretion downstream of insulin receptor in a pathway that involves AKT1 activation and TBC1D4/AS160 phosphorylation, and participates in the late step of insulin granule exocytosis probably in insulin granule fusion. Synthesizes PtdIns3P in response to insulin signaling. Functions in clathrin-coated endocytic vesicle formation and distribution. Regulates dynamin-independent endocytosis, probably by recruiting EEA1 to internalizing vesicles. In neurosecretory cells synthesizes PtdIns3P on large dense core vesicles. Participates in calcium induced contraction of vascular smooth muscle by regulating myosin light chain (MLC) phosphorylation through a mechanism involving Rho kinase-dependent phosphorylation of the MLCP-regulatory subunit MYPT1. May play a role in the EGF signaling cascade. May be involved in mitosis and UV-induced damage response. Required for maintenance of normal renal structure and function by supporting normal podocyte function.

Gene: PIK3C2A

Molecular Weight: 191 kDa

Gene ID: 5286

UniProt: [O00443](#)

Pathways: [EGFR Signaling Pathway](#), [Inositol Metabolic Process](#), [Platelet-derived growth Factor Receptor Signaling](#)

Application Details

Application Notes: WB 1:500-1:2000, ELISA(peptide) 1:20000-1:40000

Restrictions: For Research Use only

Handling

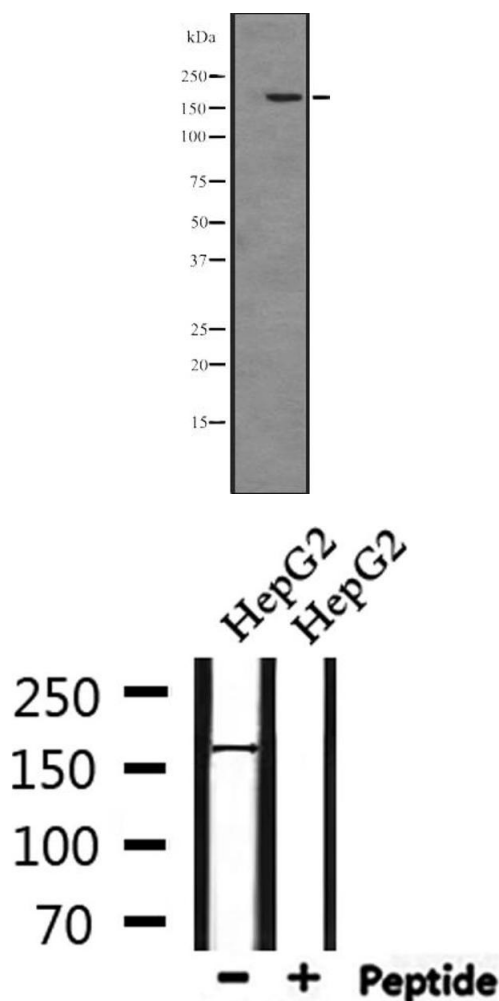
Format: Liquid

Concentration: 1 mg/mL

Handling

| | |
|--------------------|--|
| Buffer: | Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. |
| 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 |
| Expiry Date: | 12 months |

Images



Western Blotting

Image 1. Western blot analysis of PIK3C2A expression in A431 whole cell lysate ,The lane on the left is treated with the antigen-specific peptide.

Western Blotting

Image 2. Western blot analysis of extracts from HepG2, using PIK3C2A Antibody.