

Product datasheet

Anti-PI 3 Kinase p110 delta antibody [EPR386] - BSA and Azide free ab236049

KO VALIDATED Recombinant RabMAb[®]

3 Images

Overview

Product name	Anti-PI3 Kinase p110 delta antibody [EPR386] - BSA and Azide free
Description	Rabbit monoclonal [EPR386] to PI 3 Kinase p110 delta - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HAP1, Jurkat and K562 whole cell lysates.
General notes	<p>ab236049 is the carrier-free version of ab109006.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR386
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab236049 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

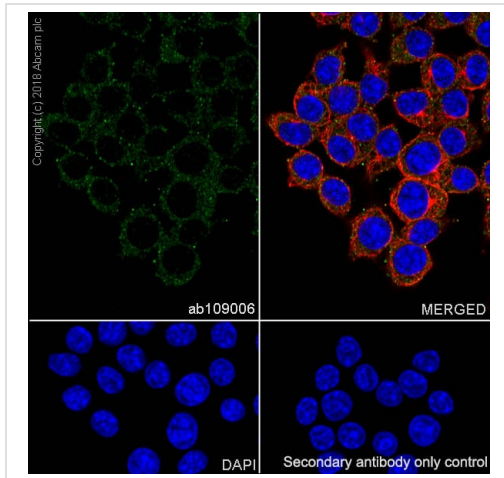
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 119 kDa.
ICC/IF		1/150.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Tissue specificity	Expressed predominantly in leukocytes.
Pathway	Phospholipid metabolism; phosphatidylinositol phosphate biosynthesis.
Sequence similarities	Belongs to the PI3/PI4-kinase family. Contains 1 PI3K/PI4K domain.
Post-translational modifications	Autophosphorylation on Ser-1039 results in the almost complete inactivation of the lipid kinase activity.

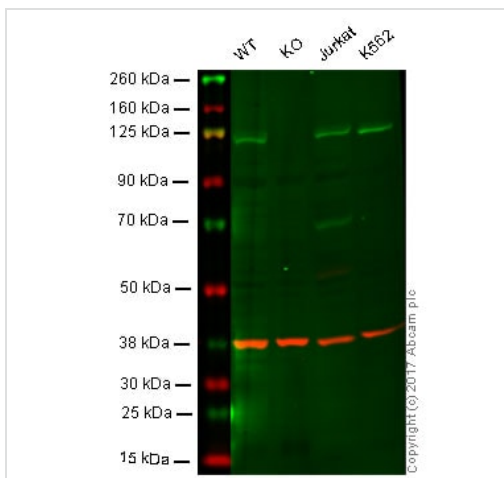
Images



Immunocytochemistry/ Immunofluorescence - Anti-PI 3 Kinase p110 delta antibody [EPR386] - BSA and Azide free (ab236049)

Immunocytochemistry/ Immunofluorescence analysis of RAW264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage) cells labeling PI 3 Kinase p110 delta with Purified **ab109006** at 1:150 dilution (9.8 µg/ml). Cells were fixed in 100% Methanol and permeabilized with none. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109006**).



Western blot - Anti-PI 3 Kinase p110 delta antibody [EPR386] - BSA and Azide free (ab236049)

Lane 1: Wild type HAP1 whole cell lysate (40 µg)
Lane 2: PIK3CD knockout HAP1 whole cell lysate (40 µg)
Lane 3: Jurkat whole cell lysate (40 µg)
Lane 4: K562 whole cell lysate (40 µg)
Lanes 1 - 4: Merged signal (red and green). Green - **ab109006** observed at 120 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109006 was shown to specifically react with PIK3CD in wild-type HAP1 cells. No band was observed when PIK3CD knockout samples were used. Wild-type and PIK3CD knockout samples were subjected to SDS-PAGE. Ab109006 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1/10,000 dilution for 1hr at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab109006**).

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-PI 3 Kinase p110 delta antibody [EPR386] -
BSA and Azide free (ab236049)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors