

Datasheet: VMA00277KT

Description:	PI-3 KINASE SUBUNIT GAMMA ANTIBODY WITH CONTROL LYSATE
Specificity:	PI-3 KINASE SUBUNIT GAMMA
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Clone:	OTI6D1
Isotype:	IgG2a
Quantity:	2 Westerns

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin 50% Glycerol
Immunogen	Full length recombinant human PI-3 kinase subunit gamma (NP_002640) produced in HEK293T cells
External Database Links	UniProt: P48736 Related reagents Entrez Gene: 5294 PIK3CG Related reagents
Specificity	Mouse anti Human PI-3 kinase subunit gamma antibody recognizes the phosphatidylinositol

4,5-bisphosphate 3-kinase catalytic subunit gamma isoform, also known as 1-phosphatidylinositol 3-kinase, phosphatidylinositol 3 kinase gamma, p110 gamma, phosphatidylinositol 3-kinase catalytic 110-kD gamma, phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit gamma isoform, phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma isoform, phosphoinositide-3-kinase gamma catalytic subunit, ptdIns-3-kinase subunit gamma, ptdIns-3-kinase subunit p110-gamma and serine/threonine protein kinase PIK3CG.

A product of the PIK3CG gene, PI-3 kinase subunit gamma belongs to the pi3/pi4-kinase family of proteins. The gene product is an enzyme that phosphorylates phosphoinositides on the 3-hydroxyl group of the inositol ring. It is an important modulator of extracellular signals, including those elicited by E-cadherin-mediated cell-cell adhesion, which plays an important role in maintenance of the structural and functional integrity of epithelia. In addition to its role in promoting assembly of adherens junctions, the protein is thought to play a pivotal role in the regulation of cytotoxicity in NK cells. The gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. Several transcript variants encoding the same protein have been found for PIK3CG (provided by RefSeq, Sep 2013).

Mouse anti Human PI-3 kinase subunit gamma isoform antibody detects a band of 126 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting	Anti PI-3 Kinase subunit gamma detects a band of approximately 126 kDa in K562 cell lysates
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Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
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Lysate Composition	400µg K562 lysate lyophilized in RIPA buffer.
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Lysate Reconstitution	- If using DDT reconstitute the lyophilized lysate with 190µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT. - If using BME reconstitute the lyophilized lysate with 180µl DI H ₂ O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.
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Storage	Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles. Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.
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Shelf Life	As supplied, 12 months from date of despatch.
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Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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Health And Safety Information	Material Safety Datasheet documentation #10048 #10561 available at: Antibody (10048): https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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