

## Datasheet: VMA00277

<b>Description:</b>	MOUSE ANTI PI-3 KINASE SUBUNIT GAMMA
<b>Specificity:</b>	PI-3 KINASE SUBUNIT GAMMA
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb™ Monoclonal
<b>Clone:</b>	OTI6D1
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 µl

## 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](http://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.

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

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<b>Western Blotting</b>	Anti PI-3 Kinase subunit gamma detects a band of approximately 126 kDa in K562 cell lysates
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<b>Instructions For Use</b>	Please refer to the <a href="#">PrecisionAb western blotting protocol</a> . For additional information on secondary antibody dilution and exposure time see product web page.
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<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
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<b>Shelf Life</b>	As supplied, 12 months from date of despatch.
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<b>Acknowledgements</b>	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10048 available at: Antibody (10048): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf</a>
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<b>Regulatory</b>	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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Printed on 02 Jan 2019

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