

Datasheet: VMA00277

Description:	MOUSE ANTI PI-3 KINASE SUBUNIT GAMMA
Specificity:	PI-3 KINASE SUBUNIT GAMMA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI6D1
Isotype:	IgG2a
Quantity:	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.

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

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography from ascites
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin 50% Glycerol
Immunogen	Full length recombinant human PI-3 kinase subunit gamma (NP_002640) produced in HEK293T cells
External Database	UniProt:

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

Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information

Material Safety Datasheet documentation #10048 available at: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

Regulatory

For research purposes only

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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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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