Datasheet: VMA00263

BATCH NUMBER 151112

Description:	MOUSE ANTI PI-3 KINASE C2 SUBUNIT ALPHA
Specificity:	PI-3 KINASE C2 SUBUNIT ALPHA
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	OTI1B8
Isotype:	IgG2b
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

Species Cross Reactivity

Reacts with: Mouse, Rat
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

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	Recombinant protein corresponding to amino acids 230-560 of human PI-3 C2 subunit alpha (NP_002636) produced in *E. coli*
External Database Links	**UniProt:** O00443 Related reagents **Entrez Gene:** 5286 PIK3C2A Related reagents
Specificity	**Mouse anti Human PI-3 kinase C2 subunit alpha antibody, clone OTI1B8** recognizes the phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha, also known as C2-containing phosphatidylinositol kinase, PI3K-C2-alpha, PI3K-C2alpha, phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit alpha, phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit alpha, phosphoinositide 3-kinase-C2-alpha, phosphoinositide-3-kinase, class 2, alpha polypeptide and ptdIns-3-kinase C2 subunit alpha. The protein encoded by PIK3C2A gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is not sensitive to nanomolar levels of the inhibitor wortmanin. This protein was shown to be able to be activated by insulin and may be involved in integrin-dependent signaling. (provided by RefSeq, Jul 2008). Mouse anti Human PI-3 kinase C2 subunit alpha antibody, clone OTI1B8 detects a band of 191 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.
Western Blotting	Anti PI-3 Kinase C2 subunit alpha detects a band of approximately 191 kDa in C6 cell lysates
Storage	Store undiluted at -20^{o}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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

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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