

Datasheet: VMA00817

BATCH NUMBER 100004835

Description:	MOUSE ANTI PDPK1
Specificity:	PDPK1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF01/2H4
Isotype:	IgG1
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
Immunoprecipitation	▪			
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 affinity purified on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	<i>E. coli</i> -derived recombinant protein of amino acids 411-556 of human PDPK1
External Database Links	<p>UniProt: O15530 Related reagents</p> <p>Entrez Gene: 5170 PDPK1 Related reagents</p>
Synonyms	PDK1
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	<p>Mouse anti PDPK1 antibody recognizes 3-phosphoinositide-dependent protein kinase 1, otherwise known as PDK1.</p> <p>PDPK1 is a serine/threonine kinase which belongs to the AGC family of protein kinases. The protein plays important roles in cell proliferation and survival, and is crucial for regulation of every step during cell migration (Di Blasio et al. 2017). PDPK1 affects a multitude of downstream processes including PI3K/Akt, Ras/MAPK and Myc signalling, which are often implicated in cancer. PDPK1 controls cancer cell invasion and dissemination, and consistent with this effect, its expression is dysregulated in many cancer types including lung and prostate cancer (Emmanouilidi and Falasca 2017). Targeting PDPK1 has shown to be effective in experimental models with alterations in downstream signalling pathways, and therefore, it has been suggested as a target for cancer therapy (Gagliardi et al. 2018), including the suggestion that PDPK1 inhibition could re-sensitize cancer cells to chemotherapeutic agents (Emmanouilidi and Falasca 2017).</p>
Western Blotting	Mouse anti PDPK1 antibody detects a band of approximately 56–69 kDa in HEK293 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/VMA00817 Antibody (10040)

Related Products

Recommended Secondary Antibodies

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

North & South Tel: +1 800 265 7376

America 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
'M387439:210629'

Printed on 10 Apr 2024
