

Datasheet: VMA00817

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	0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 411-556 of human PDPK1

External Database Links**UniProt:**

[O15530](#) [Related reagents](#)

Entrez Gene:

[5170](#) PDPK1 [Related reagents](#)

Synonyms PDK1

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti PDPK1 antibody** recognizes 3-phosphoinositide-dependent protein kinase 1, otherwise known as PDK1.

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](#)).

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)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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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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