

## Datasheet: VMA00817

<b>Description:</b>	MOUSE ANTI PDPK1
<b>Specificity:</b>	PDPK1
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	EF01/2H4
<b>Isotype:</b>	IgG1
<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
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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	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

This product is shipped at ambient temperature.  
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](#)

### 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](https://bio-rad-antibodies.com/datasheets)

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