

## Datasheet: VMA00096

<b>Description:</b>	MOUSE ANTI PLAKOPHILIN 1
<b>Specificity:</b>	PLAKOPHILIN 1 aa235-726
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<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
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>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Recombinant fusion protein fragment, consisting of amino acids 235-726 of human plakophilin 1, fused to maltose binding protein.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q13835</a> <a href="#">Related reagents</a>

**Entrez Gene:**

[5317](#) PKP1 [Related reagents](#)

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<b>Specificity</b>	<p><b>Mouse anti Human plakophilin 1</b> recognizes a member of the plakophilin family which have been identified as junctional proteins that are essential for the formation and stabilization of desmosomal cell contacts. Plakophilin 1 is a protein that in humans is encoded by the PKP1 gene, with a molecular weight of 75 kDa. This gene encodes a member of the arm-repeat (armadillo) and plakophilin gene families.</p> <p>Plakophilin proteins contain numerous armadillo repeats, localize to cell desmosomes and nuclei, and participate in linking cadherins to intermediate filaments in the cytoskeleton. This protein may be involved in molecular recruitment and stabilization during desmosome formation and in the formation of desmosomal plaques where it is associated with desmoplakin. It is not found in cell types that have non-epithelial desmosomes and is absent in fibroblasts and other connective tissue types, including sarcomas. Mutations in this gene have been associated with the ectodermal dysplasia/skin fragility syndrome.</p> <p>Mouse anti Human plakophilin 1 antibody has been found to be specific for the armadillo repeat domain of plakophilin 1. This antibody has been extensively validated for western blotting using whole cell lysates.</p>
<b>Western Blotting</b>	Anti plakophilin 1 antibody detects a band at 75 kDa in A431 cell lysates
<b>Storage</b>	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted.
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: Antibody (10040): <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

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## 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)  
'M369900:200529'

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