

Datasheet: VMA00095

**BATCH NUMBER 151106**

<b>Description:</b>	MOUSE ANTI DESMOPLAKIN
<b>Specificity:</b>	DESMOPLAKIN aa2344-2822
<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
Immunofluorescence	▪			

**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 the carboxyl terminus of desmoplakin, fused with maltose binding protein.

**External Database  
Links**

**UniProt:**

[P15924](#)   [Related reagents](#)

**Entrez Gene:**

[1832](#)   DSP   [Related reagents](#)

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**Specificity**

**Mouse anti Human desmoplakin** recognises a major protein component of the desmosome. Desmosomes are intercellular junctions that tightly link adjacent cells. Desmoplakin is a major high molecular weight protein (312 kDa) of desmosomes which anchor intermediate filaments to desmosomal plaques.

The N-terminus of desmoplakin is required for localization to the desmosome and interacts with the N-terminal region of plakophilin 1 to selectively recruit plakophilins to desmosomal plaques. Desmoplakin has also been shown to function as a transglutaminase substrate *in vitro*, suggesting that it may participate in cell adhesion at the intra-epidermal level.

Desmosomes are the most common type of intercellular junction in vertebrate epithelial cells. They are characterized by 2 forms of interaction with other cellular structures. Firstly, they form membrane anchorage sites for intermediate-size filaments, which are seen as electron-dense plaques evident beneath the plasma membrane. Secondly, a specific membrane core domain interacts with a corresponding domain of the plasma membrane of an adjacent cell, apparently mediating intercellular adhesion in a stable way. Mutations in the gene for this protein are the cause of several cardiomyopathies and keratodermas as well as some autoimmune diseases.

Mouse anti Human desmoplakin binds to an epitope between amino acids 2344-2822 of desmoplakin. This antibody has been extensively validated for western blotting using whole cell lysates.

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<b>Western Blotting</b>	Anti desmoplakin antibody detects a band of approximately 332 kDa in HepG2 cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<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: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00095">https://www.bio-rad-antibodies.com/SDS/VMA00095</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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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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