

## Datasheet: VMA00093

<b>Description:</b>	MOUSE ANTI PRO DESMOGLEIN 2
<b>Specificity:</b>	PRO DESMOGLEIN 2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	19B9
<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 amino acids 37-164 of desmoglein 2 which consists of the entire extracellular domain and a portion of the proregion.

**External Database  
Links**

**UniProt:**

[Q14126](#)

[Related reagents](#)

**Entrez Gene:**

[1829](#)

DSG2

[Related reagents](#)

**Synonyms**

CDHF5

**Specificity**

**Mouse anti-Human pro desmoglein 2** recognises pro desmoglein 2, a member of the desmoglein family. Desmosomes are cell-cell junctions between epithelial, myocardial, and certain other cell types. Currently, four desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily.

Desmoglein 2 is a membrane glycoprotein with four highly conserved extracellular domains (EC1 - 4) and six cytoplasmic desmoglein repeat sequences. It has a predicted molecular weight of 122 kDa and an apparent molecular weight of 150 kDa, due to post translational modification. Desmoglein 2 is a core component of the desmosome cell-cell junction between cells. This protein has been identified as the autoantigen of the autoimmune skin blistering disease pemphigus vulgaris and mutations in the gene have been associated with arrhythmogenic right ventricular dysplasia.

Mouse anti Human pro desmoglein 2 antibody has been found to be specific for a region near the N terminus of EC1 but only binds to the target in a proregion-dependent manner ([Keim \*et al.\* 2008](#)). This antibody has been extensively validated for western blotting using whole cell lysates and is available with a positive control lysate, in a smaller trial size, and as a standalone antibody.

**Western Blotting**

Anti pro desmoglein 2 antibody detects a band of approximately 150 kDa in Western Blotting

**References**

1. Keim, S.A. *et al.* (2008) Generation and characterization of monoclonal antibodies against the proregion of human desmoglein-2. [Hybridoma \(Larchmt\). 27 \(4\): 249-58.](#)

**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:  
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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