

Datasheet: VMA00094

Description:	MOUSE ANTI PRO DESMOGLEIN 2
Specificity:	PRO DESMOGLEIN 2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	20G1
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
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.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	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 recognizes 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 4 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 specifically recognizes an epitope within the proregion domain of desmoglein 2, epitope mapping having demonstrated reactivity with fusion proteins containing the entire prodomain but not with fusion proteins lacking the proregion ([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 HepG2 cell lysates

References

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

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