

Datasheet: VMA00093KT

Description:	PRO DESMOGLEIN 2 ANTIBODY WITH CONTROL LYSATE
Specificity:	PRO DESMOGLEIN 2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	19B9
Isotype:	IgG1
Quantity:	2 Westerns

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G 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:

Entrez Gene:

[1829](#) DSG2 [Related reagents](#)

Synonyms	CDHF5
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Specificity	<p>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.</p> <p>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.</p> <p>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.</p>
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Western Blotting	Anti pro desmoglein 2 detects a band of approximately 155 kDa in A431 cell lysate
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Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
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Lysate Composition	400µg A431 lysate lyophilized in RIPA buffer.
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Lysate Reconstitution	<ul style="list-style-type: none">- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME. <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
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References	1. Keim, S.A. <i>et al.</i> (2008) Generation and characterization of monoclonal antibodies against the proregion of human desmoglein-2. Hybridoma (Larchmt). 27 (4): 249-58.
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Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
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Guarantee As supplied, 12 months from date of despatch.

Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 #10561 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.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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