

Datasheet: MCA2271

BATCH NUMBER 050214R

Description:	MOUSE ANTI HUMAN DESMOGLEIN 1
Specificity:	DESMOGLEIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	27B2
Isotype:	IgG1
Quantity:	0.2 mg

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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			1/100 - 1/1000
Immunofluorescence	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen	Recombinant human desmoglein 1.
External Database Links	<p>UniProt: Q02413 Related reagents</p> <p>Entrez Gene: 1828 DSG1 Related reagents</p>
Synonyms	CDHF4
RRID	AB_2093299
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p>Mouse anti Human desmoglein 1 antibody, clone 27B2 recognizes human desmoglein 1, also known as Cadherin family member 4, Desmosomal glycoprotein 1, DG1 or Pemphigus foliaceus antigen. Desmoglein 1 is a 999 amino acid mature peptide with an an additional 26aa propeptide region and a 23 aa signal peptide. Desmoglein 1 is a ~165 kDa single pass type I transmembrane glycoprotein and core component of the desmosome cell-cell junction between epithelial cells.</p> <p>Desmoglein 1 is expressed in the suprabasal layer of the skin and is vital to epidermal integrity (Kottke et al. 2006, Biedermann et al. 2010).</p> <p>Mouse anti Human desmoglein 1 antibody, clone 27B2 does not recognize desmoglein-2 or desmoglein-3.</p>
Histology Positive Control Tissue	Skin
Western Blotting	MCA2271 detects a band of approximately 165kDa in epithelial cell lysates.
References	<ol style="list-style-type: none"> 1. Wahl, J.K. 3rd (2002) Generation of monoclonal antibodies specific for desmoglein family members. Hybrid Hybridomics. 21 (1): 37-44. 2. Mahoney, M.G. et al. (2010) Compound heterozygous desmoplakin mutations result in a phenotype with a combination of myocardial, skin, hair, and enamel abnormalities. J Invest Dermatol. 130 (4): 968-78. 3. Wu, H. et al. (2000) Protection against pemphigus foliaceus by desmoglein 3 in neonates. N Engl J Med. 343 (1): 31-5. 4. Otkarina, D.A. et al. (2011) IgG-induced clustering of desmogleins 1 and 3 in skin of patients with pemphigus fits with the desmoglein nonassembly depletion hypothesis. Br J Dermatol. 165 (3): 552-62.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2271 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (STAR77...)	HRP

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