

Datasheet: MCA2271T

BATCH NUMBER 050214

Description:	MOUSE ANTI HUMAN DESMOGLEIN 1
Specificity:	DESMOGLEIN 1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	27B2
Isotype:	IgG1
Quantity:	25 µg

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_2093298
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. Oktarina, 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/MCA2271T 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...)	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 (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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