

Datasheet: MCA2272T

BATCH NUMBER 200514

Description:	MOUSE ANTI HUMAN DESMOGLEIN 2
Specificity:	DESMOGLEIN 2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	6D8
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

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	A-431 cell membranes.

External Database Links	UniProt: Q14126 Related reagents Entrez Gene: 1829 DSG2 Related reagents
Synonyms	CDHF5
RRID	AB_2261758
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<p>Mouse anti Human desmoglein 2 monoclonal antibody, clone 6D8 recognizes human desmoglein 2, a single pass type 1 membrane glycoprotein with 4 extracellular cadherin domains and six cytoplasmic desmoglein repeat sequences, with a predicted molecular weight of ~122 kDa and an apparent molecular weight of ~160-165 kDa, due to post translational modification. Desmoglein 2 is a core component of the desmosome cell-cell junction between epithelial cells.</p> <p>Mouse anti human desmoglein 2, clone 6D8 has been used for the study of the interaction between desmoglein 2 and adenoviruses which exploit desmoglein 2 as a receptor for infection (Wang et al. 2013).</p> <p>Mouse anti Human desmoglein 2 monoclonal antibody, clone 6D8 recognizes a region encompassing a portion of extracellular domains 3 and 4 (Kolegraff et al. 2011) and does not recognize desmoglein-1 or desmoglein-3 (Wahl et al. 2002).</p>
Histology Positive Control Tissue	Skin
Western Blotting	MCA2272 detects a band of approximately 165kDa in A-431 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. Hemmoranta, H. et al. (2006) Transcriptional profiling reflects shared and unique characters for CD34+ and CD133+ cells. Stem Cells Dev. 15: 839-51. 3. Wang, H. et al. (2012) A new human DSG2-transgenic mouse model for studying the tropism and pathology of human adenoviruses. J Virol. 86 (11): 6286-302. 4. Gornowicz-Porowska, J. et al. (2011) Loss of correlation between intensities of desmoglein 2 and desmoglein 3 expression in basal cell carcinomas. Acta Dermatovenerol Croat. 19: 150-5. 5. Yamamoto, Y. et al. (2007) Anti-desmoglein 3 (Dsg3) monoclonal antibodies deplete desmosomes of Dsg3 and differ in their Dsg3-depleting activities related to pathogenicity. J Biol Chem. 282: 17866-76. 6. Pietkiewicz, P. et al. (2014) Discordant expression of desmoglein 2 and 3 at the mRNA and protein levels in nodular and superficial basal cell carcinoma revealed by

immunohistochemistry and fluorescent *in situ* hybridization. [Clin Exp Dermatol. 39 \(5\): 628-35.](#)

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12. Wang, H. *et al.* (2013) Structural and functional studies on the interaction of adenovirus fiber knobs and desmoglein 2. [J Virol. 87 \(21\): 11346-62.](#)

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14. Ishii, K. *et al.* (2001) Assembly of desmosomal cadherins into desmosomes is isoform dependent. [J Invest Dermatol. 117 \(1\): 26-35.](#)

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Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

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

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2272T>
10040

Regulatory For research purposes only

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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'M366499:200529'

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