

Datasheet: MCA2272

BATCH NUMBER 154440

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

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	<p>UniProt: Q14126 Related reagents</p> <p>Entrez Gene: 1829 DSG2 Related reagents</p> <hr/> <p>Synonyms CDHF5</p> <hr/> <p>RRID AB_2093429</p> <hr/> <p>Fusion Partners Spleen cells from immunized Balb/c mice were fused with cells of the mouse NS-1 myeloma cell line.</p> <hr/> <p>Specificity 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> <hr/> <p>Histology Positive Control Tissue Skin</p> <hr/> <p>Western Blotting MCA2272 detects a band of approximately 165kDa in A-431 cell lysates.</p> <hr/> <p>References</p> <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
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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/MCA2272 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP

Goat Anti Mouse IgG (STAR76...) [RPE](#)
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 (STAR13...) [HRP](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

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'M366498:200529'

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