

Datasheet: 2722-5204

BATCH NUMBER 173448

Description:	MOUSE ANTI DESMOPLAKIN 1/2
Specificity:	DESMOPLAKIN 1/2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	DP-2.15
Isotype:	IgG1
Quantity:	50 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
Immunohistology - Frozen	▪			
Western Blotting	▪			
Immunofluorescence	▪			

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Bovine, Chicken, Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1mg/ml
Immunogen	Native bovine desmoplakin 1 and 2 purified from bovine snout desmosomes.
External Database Links	<p>UniProt: P15924 Related reagents</p> <p>Entrez Gene: 1832 DSP Related reagents</p>
RRID	AB_619950
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 mouse myeloma cell line.
Specificity	<p>Mouse anti Desmoplakin 1/2 antibody, clone DP-2.15 recognizes both desmoplakin 1 and 2 from stratified epithelia, simple epithelia including glands, urothelium, thymic reticular epithelium, hepatocytes, intercalated disks of myocardium and arachnoid cells of meninges. Mouse anti Desmoplakin 1/2 antibody, clone DP-2.15 can be used for the detection of primary and metastatic carcinomas.</p> <p>Mouse anti Desmoplakin 1/2 antibody, clone DP-2.15 recognizes the N terminus of the rod domain of desmoplakin (Bornslaeger et al. 1996).</p>
References	<ol style="list-style-type: none"> Cowin, P. <i>et al.</i> (1985) The complement of desmosomal plaque proteins in different cell types. J Cell Biol. 101 (4): 1442-54. Otten, J. <i>et al.</i> (2010) Complete loss of murine Xin results in a mild cardiac phenotype with altered distribution of intercalated discs. Cardiovasc Res. 85 (4): 739-50. DeQuach JA <i>et al.</i> (2010) Simple and high yielding method for preparing tissue specific extracellular matrix coatings for cell culture. PLoS One. 5 (9): e13039. Jheon, A.H. <i>et al.</i> (2011) PERP regulates enamel formation via effects on cell-cell adhesion and gene expression. J Cell Sci. 124: 745-54. Chkourko, H.S. <i>et al.</i> (2012) Remodeling of mechanical junctions and of microtubule-associated proteins accompany cardiac connexin43 lateralization. Heart Rhythm. 9 (7): 1133-1140.e6. Papageorgiou, I. <i>et al.</i> (2014) Interaction of micron and nano-sized particles with cells of the dura mater. J Biomed Mater Res B Appl Biomater. 102 (7): 1496-505. Basheer, W.A. <i>et al.</i> (2015) Cardiomyocyte-specific overexpression of the ubiquitin ligase Wwp1 contributes to reduction in Connexin 43 and arrhythmogenesis. J Mol Cell Cardiol. 88: 1-13. Park, D.S. <i>et al.</i> (2015) Genetically engineered SCN5A mutant pig hearts exhibit conduction defects and arrhythmias. J Clin Invest. 125 (1): 403-12. Yung, H.W. <i>et al.</i> (2016) Placental endoplasmic reticulum stress in gestational diabetes: the potential for therapeutic intervention with chemical chaperones and antioxidants. Diabetologia. 59 (10): 2240-50.

10. Vila, J. *et al.* (2017) Structural and molecular pathology of the atrium in boxer arrhythmogenic right ventricular cardiomyopathy. [J Vet Cardiol. 19 \(1\): 57-67.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/2722-5204>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M438077:250321'

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