Datasheet: 2722-5204

BATCH NUMBER 173062

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	**UniProt:** P15924 Related reagents **Entrez Gene:** 1832 DSP Related reagents
RRID	AB_619950
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 mouse myeloma cell line.
Specificity	**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. Mouse anti Desmoplakin 1/2 antibody, clone DP-2.15 recognizes the N terminus of the rod domain of desmoplakin (Bornslaeger *et al.* 1996).
References	1. Cowin, P. *et al.* (1985) The complement of desmosomal plaque proteins in different cell types. J Cell Biol. 101 (4): 1442-54. 2. Otten, J. *et al.* (2010) Complete loss of murine Xin results in a mild cardiac phenotype with altered distribution of intercalated discs. Cardiovasc Res. 85 (4): 739-50. 3. DeQuach JA *et al.* (2010) Simple and high yielding method for preparing tissue specific extracellular matrix coatings for cell culture. PLoS One. 5 (9): e13039. 4. Jheon, A.H. *et al.* (2011) PERP regulates enamel formation via effects on cell-cell adhesion and gene expression. J Cell Sci. 124: 745-54. 5. Chkourko, H.S. *et al.* (2012) Remodeling of mechanical junctions and of microtubule-associated proteins accompany cardiac connexin43 lateralization. Heart Rhythm. 9 (7): 1133-1140.e6. 6. Papageorgiou, I. *et al.* (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. 7. Basheer, W.A. *et al.* (2015) Cardiomyocyte-specific overexpression of the ubiquitin ligase Wwp1 contributes to reduction in Connexin 43 and arrhythmogenesis. J Mol Cell Cardiol. 88: 1-13. 8. Park, D.S. *et al.* (2015) Genetically engineered SCN5A mutant pig hearts exhibit conduction defects and arrhythmias. J Clin Invest. 125 (1): 403-12. 9. Yung, H.W. *et al.* (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

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