

Datasheet: 2722-5204

**BATCH NUMBER 161863**

<b>Description:</b>	MOUSE ANTI DESMOPLAKIN 1/2
<b>Specificity:</b>	DESMOPLAKIN 1/2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	DP-2.15
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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

### Buffer Solution

Phosphate buffered saline

### Preservative

<0.1% Sodium Azide (NaN<sub>3</sub>)

## Stabilisers

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**Approx. Protein Concentrations** IgG concentration 1mg/ml

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**Immunogen** Native bovine desmoplakin 1 and 2 purified from bovine snout desmosomes.

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## External Database Links

### UniProt:

[P15924](#)   [Related reagents](#)

### Entrez Gene:

[1832](#) DSP   [Related reagents](#)

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**RRID** AB\_619950

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**Fusion Partners** Spleen cells from immunized Balb/c mice were fused with cells from the NS0 mouse myeloma cell line.

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**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](#)).

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## 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. 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.](#)
3. Bornslaeger, E.A. *et al.* (1996) Breaking the connection: displacement of the desmosomal plaque protein desmoplakin from cell-cell interfaces disrupts anchorage of intermediate filament bundles and alters intercellular junction assembly. [J. Cell. Biol. 134: 985-1001.](#)
4. Park, D.S. *et al.* (2015) Genetically engineered SCN5A mutant pig hearts exhibit conduction defects and arrhythmias. [J Clin Invest. 125 \(1\): 403-12.](#)
5. 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.](#)
6. 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.](#)
7. 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.](#)
8. 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.](#)

9. 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.](#)
10. 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.](#)
11. 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.](#)
12. 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.](#)

**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>  
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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