

Datasheet: 2722-5204

**BATCH NUMBER 157141**

<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

0.09% 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

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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.](#)

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<b>Storage</b>	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/2722-5204">https://www.bio-rad-antibodies.com/SDS/2722-5204</a> 10040
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

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'M363054:200528'

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