

## Datasheet: 2722-5204

<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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Bovine, Chicken, Mouse, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1mg/ml
<b>Immunogen</b>	Native bovine desmoplakin 1 and 2 purified from bovine snout desmosomes.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P15924</a> <a href="#">Related reagents</a>

**Entrez Gene:**

[1832](#) DSP [Related reagents](#)

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<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 mouse myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Desmoplakin 1/2 antibody, clone DP-2.15</b> 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 (<a href="#">Bornslaeger et al. 1996</a>).</p>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Cowin, P. <i>et al.</i> (1985) The complement of desmosomal plaque proteins in different cell types. <a href="#">J Cell Biol. 101 (4): 1442-54.</a></li><li>2. Jheon, A.H. <i>et al.</i> (2011) PERP regulates enamel formation via effects on cell-cell adhesion and gene expression. <a href="#">J Cell Sci. 124: 745-54.</a></li><li>3. Bornslaeger, E.A. <i>et al.</i> (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. <a href="#">J. Cell. Biol. 134: 985-1001.</a></li><li>4. Park, D.S. <i>et al.</i> (2015) Genetically engineered SCN5A mutant pig hearts exhibit conduction defects and arrhythmias. <a href="#">J Clin Invest. 125 (1): 403-12.</a></li><li>5. DeQuach JA <i>et al.</i> (2010) Simple and high yielding method for preparing tissue specific extracellular matrix coatings for cell culture. <a href="#">PLoS One. 5 (9): e13039.</a></li><li>6. Basheer, W.A. <i>et al.</i> (2015) Cardiomyocyte-specific overexpression of the ubiquitin ligase Wwp1 contributes to reduction in Connexin 43 and arrhythmogenesis. <a href="#">J Mol Cell Cardiol. 88: 1-13.</a></li><li>7. 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. <a href="#">Diabetologia. 59 (10): 2240-50.</a></li><li>8. Chkourko, H.S. <i>et al.</i> (2012) Remodeling of mechanical junctions and of microtubule-associated proteins accompany cardiac connexin43 lateralization. <a href="#">Heart Rhythm. 9 (7): 1133-1140.e6.</a></li><li>9. Vila, J. <i>et al.</i> (2017) Structural and molecular pathology of the atrium in boxer arrhythmogenic right ventricular cardiomyopathy. <a href="#">J Vet Cardiol. 19 (1): 57-67.</a></li><li>10. 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. <a href="#">Diabetologia. 59 (10): 2240-50.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody.</p> <p>Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</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>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Human Anti Mouse IgG1 (HCA036...)	<a href="#">HRP</a>

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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