

## 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.

### 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<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>	<p><b>UniProt:</b>  <a href="#">P15924</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1832</a>    DSP    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_619950
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 mouse myeloma cell line.
<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>
<b>References</b>	<ol style="list-style-type: none"> <li>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>Otten, J. <i>et al.</i> (2010) Complete loss of murine Xin results in a mild cardiac phenotype with altered distribution of intercalated discs. <a href="#">Cardiovasc Res. 85 (4): 739-50.</a></li> <li>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>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>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>Papageorgiou, I. <i>et al.</i> (2014) Interaction of micron and nano-sized particles with cells of the dura mater. <a href="#">J Biomed Mater Res B Appl Biomater. 102 (7): 1496-505.</a></li> <li>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>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>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>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> </ol>

<b>Storage</b>	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.
<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

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<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>

### 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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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
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