

Product datasheet

anti-Desmoplakin 1/2 mouse monoclonal, DP1 + 2-2.15, lyophilized, purified

Short overview

| | |
|----------------------|---|
| Cat. No. | 61003 |
| Quantity | 50 µg |
| Concentration | 50 µg/ml after reconstitution with 1 ml dist. water |

Product description

| | |
|--------------------------------------|--|
| Host | Mouse |
| Antibody Type | Monoclonal |
| Isotype | IgG1 |
| Clone | DP1 + 2-2.15 |
| Immunogen | Bovine desmoplakin 1 + 2 |
| Formulation | Lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4) |
| UniprotID | A0A3Q1MR22 (Bovine), P15924 (Human), E9Q557 (Mouse), F1LMV6 (Rat) |
| Synonym | Desmoplakin, DP, 250/210 kDa paraneoplastic pemphigus antigen, DSP |
| Conjugate | Unconjugated |
| Purification | Affinity chromatography |
| Storage before reconstitution | 2-8°C until indicated expiry date |
| Storage after reconstitution | Up to 3 months at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles |
| Intended use | Research use only |
| Application | ICC/IF, IHC, WB |
| Reactivity | Bovine, Chicken, Human, Mouse, Rat |

Applications

| | |
|--|---|
| Immunocytochemistry (ICC) | Assay dependent |
| Immunohistochemistry (IHC) - frozen | 1:10-1:50 |
| Immunohistochemistry (IHC) - paraffin | 1:10-1:50 (microwave treatment recommended) |
| Western Blot (WB) | Assay dependent |

Background

DP1 + 2-2.15 shows distinct punctate membrane staining of different epithelia. Tumors specifically detected: primary and metastatic carcinoma and meningioma. Polypeptides reacting: Desmoplakin 1 and 2 (Mr 250,000 and 215,000).

The epitope recognized by clone DP1 + 2-2.15 is mapped to the N-terminus of the rod domain (Bornslaeger, E. A., 1996). Bornslaeger, E. A.

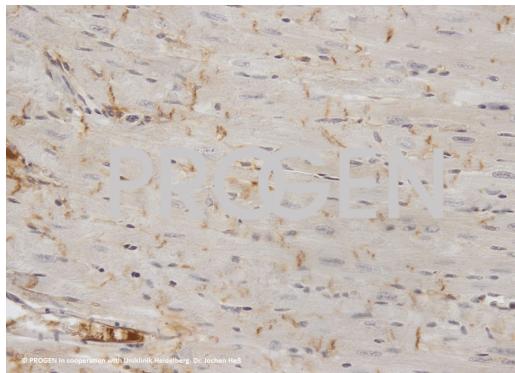
Breaking the connection: displacement of the desmosomal plaque protein desmoplakin from cell-cell interfaces disrupts anchorage of

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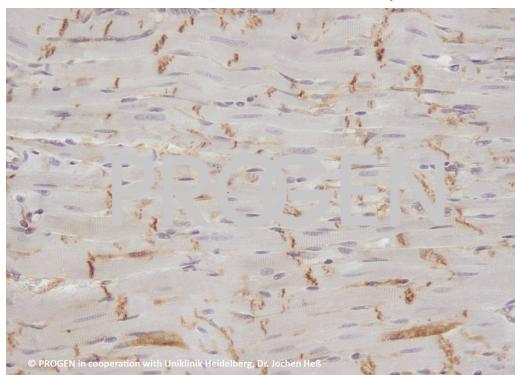
Tel.: +49 (0) 6221 8278-0 | Fax: +49 (0) 6221 8278-24 | Email: info@progen.com | Web: www.progen.com

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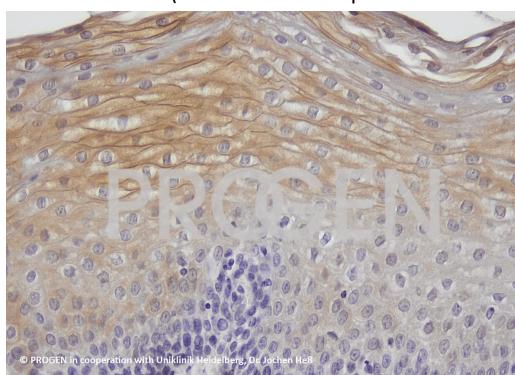
Product images



IHC of mouse heart (© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß)



IHC of rat heart (© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß)



IHC of human uvula (© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß)

References

| Publication | Species | Application |
|---|---------|--------------|
| Schinner, C. et al. Stabilization of desmoglein-2 binding rescues arrhythmia in arrhythmogenic cardiomyopathy. JCI Insight. 5. (2020) | mouse | WB |
| Shafraz, O. et al. E-cadherin binds to desmoglein to facilitate desmosome assembly. Elife. 7. (2018). | human | ICC-IF |
| Dedeiç, Z. et al. Cell autonomous role of iASPP deficiency in causing cardiocutaneous disorders. Cell Death Differ. 25, 1289-1303 (2018) | mouse | ICC-IF |
| Wallace, L., Roberts-Thompson, L. & Reichelt, J. Deletion of K1/K10 does not impair epidermal stratification but affects desmosomal structure and nuclear integrity. J. Cell Sci. 125, 1750–1758 (2012). | mouse | IHC (frozen) |
| Bosch, F. X., Andl, C., Abel, U. & Kartenbeck, J. E-cadherin is a selective and strongly dominant prognostic factor in squamous cell carcinoma: a comparison of E-cadherin with desmosomal components. Int. J. cancer 114, 779–90 (2005). | human | IHC (frozen) |