

Product datasheet

anti-Desmoplakin 1/2 mouse monoclonal, DP1 + 2-2.15, purified, sample (ready-to-use)

Short overview

Cat. No.	61003S
Quantity	600 µl (ready-to-use)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	DP1 + 2-2.15
Immunogen	Bovine desmoplakin 1 + 2
Formulation	PBS pH 7.4 with 0.5% BSA and 0.09% sodium azide
UniprotID	A0A3Q1MR22 (Bovine),E1BW10 (Chicken),P15924 (Human),E9Q557 (Mouse),Q8VBY1 (Rat)
Synonym	Desmoplakin, DP, 250/210 kDa paraneoplastic pemphigus antigen, DSP
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	Short term 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

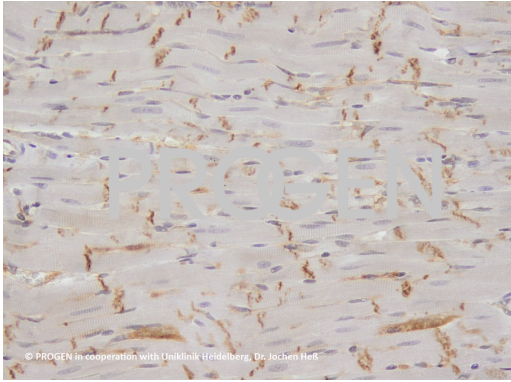
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

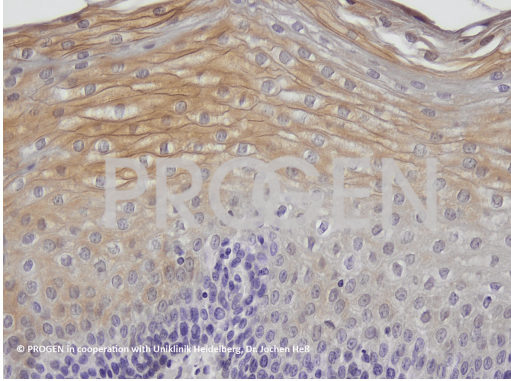
DP1 + 2-2.15 shows distinct punctate membrane staining of different epithelia. Tumors specifically detected: primary and metastatic carcinoma and meningioma. Polypeptides reacting: Desmoplakin 1 and 2 (Mr 250,000 and 215,000).

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 intermediate filament bundles and alters intercellular junction assembly. J. Cell Biol. 134, 9851001 (1996).

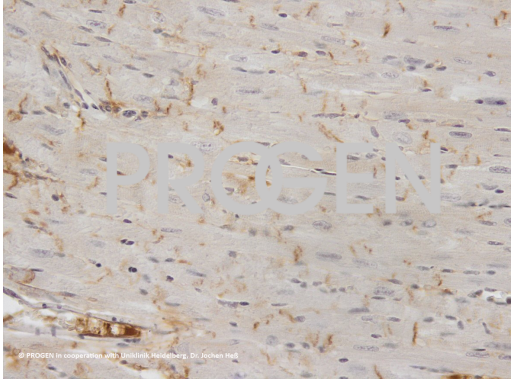
Product images



IHC of rat heart (copyright: PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Hess)



IHC of human uvula (copyright: PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Hess)



IHC of mouse heart (copyright: PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Hess)

References

Publication	Species	Application
Weiske, J. et al. The Fate of Desmosomal Proteins in Apoptotic Cells. J. Biol. Chem. 276, 41175â€“41181 (2001).	human	WB,ICC-IF
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,Â (2018).	human	ICC-IF
Dockhorn-dworniczak, b. et al. patterns of expression of cytoskeletal proteins in human thyroid gland and thyroid carcinomas. differentiation. 35, 53â€“71 (1987).	human	IHC (frozen)
Hatzfeld, M., Haffner, C., Schulze, K. & Vinzens, U. The Function of Plakophilin 1 in Desmosome Assembly and Actin Filament Organization. J. Cell Biol. 149, 209â€“222 (2000)	human	ICC-IF