

AM09127SU-N**Monoclonal Antibody to Desmoplakin (2115-2132) - Supernatant**

Alternate names:	250/210 kDa paraneoplastic pemphigus antigen, DP, DSP
Quantity:	5 ml
Uniprot ID:	P15924
NCBI:	NP_001008844
GeneID:	1832
Host / Isotype:	Mouse / IgG1
Clone:	DP447
Immunogen:	Synthetic peptide of human desmoplakin 2 (aa 2115-2132)
Format:	State: Liquid culture supernatant containing 0.09% sodium azide
Applications:	Immunoblotting Immunofluorescence Immunohistochemistry on frozen and Paraffin sections: Ready-to-use, with Paraffin use the microwave retrieval method. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody shows distinct punctate membrane staining of different epithelia. Area compositae of the myocardium of higher vertebrates are also positive. The epitope is located in a region highly conserved among species (human, zebrafish). Reacts on several cultured cell lines: <u>Human</u> MCF-7, A-431, HaCaT, CaCo2; <u>Bovine</u> MDBK, BMGE; <u>Rainbow trout</u> RTG-2. Polypeptides reacting: Desmoplakin 1 and 2 Species: Human, Bovine, Mouse, Chicken, Zebra fish, Rainbow trout, Xenopus l. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Franke WW, Borrmann CM, Grund C, Pieperhoff S. The area composita of adhering junctions connecting heart muscle cells of vertebrates. I. Molecular definition in intercalated disks of cardiomyocytes by immunoelectron microscopy of desmosomal proteins. Eur J Cell Biol. 2006 Feb;85(2):69-82. Epub 2006 Jan 9. PubMed PMID: 16406610. 2. Borrmann CM, Grund C, Kuhn C, Hofmann I, Pieperhoff S, Franke WW. The area composita of adhering junctions connecting heart muscle cells of vertebrates. II. Colocalizations of desmosomal and fascia adhaerens molecules in the intercalated disk. Eur J Cell Biol. 2006 Jun;85(6):469-85. Epub 2006 Apr 4. PubMed PMID: 16600422. 3. Franke WW, Schumacher H, Borrmann CM, Grund C, Winter-Simanowski S, Schlechter T, et al. The area composita of adhering junctions connecting heart muscle

cells of vertebrates - III: assembly and disintegration of intercalated disks in rat cardiomyocytes growing in culture. *Eur J Cell Biol.* 2007 Mar;86(3):127-42. Epub 2007 Feb 1. PubMed PMID: 17275137.

4. Pieperhoff S, Franke WW. The area composita of adhering junctions connecting heart muscle cells of vertebrates - IV: coalescence and amalgamation of desmosomal and adherens junction components - late processes in mammalian heart development. *Eur J Cell Biol.* 2007 Jul;86(7):377-91. Epub 2007 May 29. PubMed PMID: 17532539.