

## Product datasheet for **AM09122SU-N**

### Desmoplakin (DSP) (C-term) Mouse Monoclonal Antibody [Clone ID: DPI/II 236.23.1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	DPI/II 236.23.1
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen Sections.</b> <b>Immunohistochemistry on Paraffin Embedded Sections</b> (Microwave retrieval method required). <b>Working Dilution:</b> Ready to Use for Immunohistochemistry. <b>Incubation Time:</b> 1 hour at RT.
Reactivity:	Bovine, Human, Mouse, Xenopus
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	C-terminal polypeptide of recombinant Human Desmoplakin (starting at amino acid position 1980)
Specificity:	The antibody shows distinct punctate membrane staining of different epithelia. Desmosomes of the myocardium are also positive. <b>Tumors Specifically Detected:</b> Primary and metastatic carcinoma and meningioma. <b>Tested Reactivities on Cultured Cell Lines:</b> Several human carcinoma cell lines: MCF-7, A-431, HaCaT, CaCo2; bovine cells: MDBK, BMGE. <b>Polypeptides Reacting:</b> Desmoplakin 1 and 2 (Mr 250 000 and 215 000).
Formulation:	State: Supernatant State: Liquid Culture Supernatant Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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<b>Gene Name:</b>	desmoplakin
<b>Database Link:</b>	<a href="#">Entrez Gene 1832 Human P15924</a>
<b>Background:</b>	<p>Desmosomes are intercellular junctions that form tight links between adjacent cells. Desmoplakin is an obligate component of functional desmosomes that attaches intermediate filaments to desmosomal plaques. It is involved in the organization of desmosomal cadherin-plakoglobin complexes into discrete plasma membrane domains. The N-terminus of desmoplakin is essential for localisation to the desmosome and interaction with plakophilin 1 and plakoglobin. The C-terminus of desmoplakin binds to intermediate filaments. The central region of desmoplakin comprises a coiled-coil rod domain that mediates homodimerisation. There are two isoforms of desmoplakin - desmoplakin I, which is an obligate component of all desmosomes, and desmoplakin II, which is predominantly expressed in tissues and cells of stratified origin. Mutations in the gene encoding desmoplakin result in a number of cardiomyopathies and keratodermas as well as the autoimmune disease paraneoplastic pemphigus.</p>
<b>Synonyms:</b>	DP, DSP, 250/210 kDa paraneoplastic pemphigus antigen
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC)