

## Product datasheet for **BM371**

### Desmoplakin (DSP) (DP1+DP2) Mouse Monoclonal Antibody [Clone ID: DP2.15]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	DP2.15
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Immunoblotting.</b> <b>Immunofluorescence.</b> <b>Immunohistochemistry on Frozen Sections:</b> Dilute 1/10 with PBS, pH 7.4 <b>Incubation Time:</b> 1 h at RT.
Reactivity:	Amphibian, Bovine, Canine, Chicken, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Bovine Desmoplakin 1 and 2
Specificity:	This antibody reacts to Desmoplakin 1&2. It shows distinct punctate membrane staining of different epithelia. <b>Tumors Specifically Detected:</b> Primary and metastatic carcinoma and meningioma. <b>Polypeptides Reacting:</b> Desmoplakin 1 and 2 (Mr 250 000 and 215 000). <b>Reactivity on Tested Cell Lines:</b> Several Human carcinoma cell lines: MCF-7, A-431; Rat MHC1C1 cell line; Bovine cells: MDBK, BMGE.
Formulation:	Final solution contains PBS, pH 7.4 State: Purified State: Lyophilized purified Ig fraction Stabilizer: 0.5% BSA Preservative: 0.09% Sodium Azide
Reconstitution Method:	Restore in 1 ml distilled water
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated



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<b>Storage:</b>	Prior to reconstitution store at 2-8°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	desmoplakin
<b>Database Link:</b>	<a href="#">Entrez Gene 306871 Rat</a> <a href="#">Entrez Gene 1832 Human P15924</a>
<b>Background:</b>	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.
<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)