

## ARG23200 anti-Desmoplakin I+II antibody [DP-2.15]

Package: 25 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [DP-2.15] recognizes Desmoplakin DPI and DPII Mouse anti Desmoplakin 1/2 antibody, clone DP-2. 15 recognizes both desmoplakin 1 and 2 from stratified epithelia, simple epithelia including glands, urothelium, thymic reticular epithelium, hepatocytes, intercalated disks of myocardium and arachnoid cells of meninges. Mouse anti Desmoplakin 1/2 antibody, clone DP-2. 15 can be used for the detection of primary and metastatic carcinomas. Mouse anti Desmoplakin 1/2 antibody, clone DP-2. 15 recognizes the N terminus of the rod domain of desmoplakin ( Bornslaeger et al. 1996).
Tested Reactivity	Hu, Ms, Rat, Bov, Chk
Tested Application	ICC/IF, IHC-Fr, WB
Host	Mouse
Clonality	Monoclonal
Clone	DP-2.15
Isotype	IgG1
Target Name	Desmoplakin I+II
Species	Human
Immunogen	Native Bovine desmoplakin 1 and 2 purified from Bovine snout desmosomes.
Conjugation	Un-conjugated
Alternate Names	250/210 kDa paraneoplastic pemphigus antigen; Desmoplakin; DP; DPII; DCWHKTA; DPI

### Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	WB	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	DSP
Gene Full Name	desmoplakin
Background	Desmosomes are intercellular junctions that tightly link adjacent cells. Desmoplakin is an obligate component of functional desmosomes that anchors intermediate filaments to desmosomal plaques. The N-terminus of desmoplakin is required for localization to the desmosome and interacts with the N-terminal region of plakophilin 1 and plakoglobin. The C-terminus of desmoplakin binds with intermediate filaments. In the mid-region of desmoplakin, a coiled-coiled rod domain is responsible for homodimerization. Mutations in this gene are the cause of several cardiomyopathies and keratodermas as well as the autoimmune disease paraneoplastic pemphigus. [provided by RefSeq, Jul 2008]
Function	Major high molecular weight protein of desmosomes. Involved in the organization of the desmosomal cadherin-plakoglobin complexes into discrete plasma membrane domains and in the anchoring of intermediate filaments to the desmosomes. [UniProt]
Calculated Mw	332 kDa
PTM	Ser-2849 is probably phosphorylated by a cAMP-dependent protein kinase. Phosphorylation on Ser-2849 probably affects its association with epidermal, simple cytokeratins and VIM intermediate filaments. [UniProt]