

## ARG65281 anti-Desmoplakin I antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes Desmoplakin isoform I
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat
Tested Application	IHC-P
Specificity	This antibody is expected to recognize reported isoform I (NP_004406.2) only.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Desmoplakin I
Species	Human
Immunogen	C-QESVKQAHLRNEH
Conjugation	Un-conjugated
Alternate Names	250/210 kDa paraneoplastic pemphigus antigen; Desmoplakin; DP; DP11; DCWHKTA; DPI

### Application Instructions

Application table	Application	Dilution
	IHC-P	3 - 6 µg/ml

**Application Note** IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 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

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Database links [GeneID: 1832 Human](#)

[Swiss-port # P15924 Human](#)

**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]

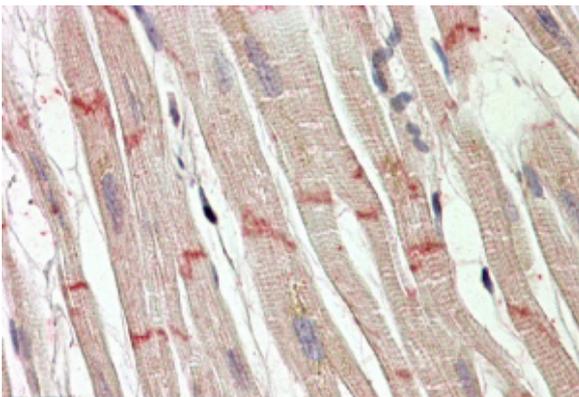
**Research Area** Signaling Transduction antibody

**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.

## Images

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ARG65281 anti-Desmoplakin antibody IHC-P image

Immunohistochemistry: paraffin embedded Human Heart. (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG65281 anti-Desmoplakin (aa 1672 -1684) antibody at 3.8 µg/ml dilution followed by AP-staining.