

# **Human Desmoplakin Antibody**

Monoclonal Mouse IgG<sub>1</sub> Clone # 824038 Catalog Number: MAB9080

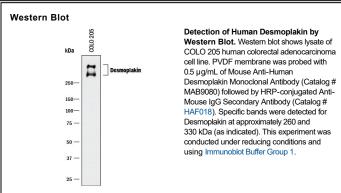
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Desmoplakin in direct ELISAs and Western blots.		
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 824038		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	E. coli-derived recombinant human Desmoplakin Asn1796-Val2046 Accession # P15924		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below

## DATA



PREPARATION	ON AND	STORAGE

 Reconstitution
 Reconstitute at 0.5 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

### Stability & Storage

#### Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

#### BACKGROUND

DSP (desmoplakin) is the major high molecular weight protein of desmosomes, the most common type of intercellular junction in vertebrate epithelial cells. DSP is involved in the organization of the desmosomal cadherin-plakoglobin complex, as well as in the anchoring of intermediate filaments to desmosomes. These functions are thought to impart tensile strength and integrity to epithelial and vascular tissues. Mutations in DSP result in several clinical phenotypes, ranging from mild skin conditions, to severe skin blistering with subsequent dehydration, to lethal heart defects. Two major desmoplakin isoforms, DSPI and DSPII, are encoded by alternative mRNA transcripts differentially spliced from the same gene. Human DSPI is 2,871 amino acids (aa) in length, while DSPII lacks part of a central alpha-helical rod domain, and is 599 aa shorter.

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