

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Desmoplakin in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 824038
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Desmoplakin Asn1796-Val2046 Accession # P15924
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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, DSP1 and DSP2, are encoded by alternative mRNA transcripts differentially spliced from the same gene. Human DSP1 is 2,871 amino acids (aa) in length, while DSP2 lacks part of a central alpha-helical rod domain, and is 599 aa shorter.

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