

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Desmocollin-3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 20% cross-reactivity with recombinant human Desmocollin-3 is observed and no cross-reactivity with recombinant mouse (rm) Desmocollin-1 or rmDesm
Source	Monoclonal Rat IgG _{2A} Clone # 765129
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Desmocollin-3 Arg136-Leu695 Accession # P55850
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.
Immunohistochemistry	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

DSC-3 (Desmocollin [Greek for "glue-that-binds"]-3) is a 95-110 kDa member of the Ca⁺⁺-dependent cadherin family of adhesion molecules. It is found on the surface of stratified epithelial cells, including keratinized and nonkeratinized epithelia of the urinary bladder, vagina, oral cavity and skin. DSC-3 serves as a component of desmosomes, forming a linkage that unites adjacent cells with cytoplasmic intermediate filaments. In particular, in the extracellular space, DSC-3 forms both homotypic and heterotypic interactions with DSG-1 in-trans, and binds to the cytoskeleton intracellularly via plakophilin-3. Mature mouse DSC-3 is a 760 amino acid (aa) type I transmembrane glycoprotein. The mature molecule contains a 560 aa extracellular region with five cadherin domains (aa 136-691), and a 179 aa cytoplasmic domain that possesses three utilized Ser phosphorylation sites. There is one splice variant that shows an eight aa substitution for aa 831-895. Over aa 136-695, mouse DSC-3 shares 79% and 93% aa identity with human and rat DSC-3, respectively.

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