

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Desmocollin-2 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant human Desmocollin-2 is observed, and less than 1% cross-reactivity with recombinant mouse (rm) Desmocollin-1 and rmDesmocollin-3 is observed
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Desmocollin-2 Arg136-Pro694 Accession # P55292
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.

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-2 (Desmocollin [Greek for "glue-that-binds"]-2; also epithelial type 2 desmocollin) is a 100-120 kDa member of the Ca⁺⁺-dependent cadherin family of adhesion molecules. It is found on the surface of both simple and stratified epithelium that form desmosomes. DSC-2 expression is induced by DSG-2 where it serves as a component of desmosomes, forming a linkage that unites adjacent cells with cytoplasmic intermediate filaments. Homodimeric DSC-2 forms in-trans, and DSC-2 may also form heterotypic interactions with DSG-2. A DSC-2:DSG-2 cis-interaction is suggested to block DSG-2 activation of Akt, an action that results in β-catenin mediated cell proliferation. Mature mouse DSC-2 is a 767 amino acid (aa) type I transmembrane glycoprotein (aa 136-902). The mature molecule contains a 559 aa extracellular region (aa 136-694) with five cadherin domains (aa 136-694) and a 187 aa cytoplasmic tail (aa 716-902). There is one 100-110 kDa splice variant that shows an 11 aa substitution for aa 838-902. Over aa 136-694, mouse DSC-2 shares 87% and 79% aa sequence identity with rat and human DSC-2, respectively.

PRODUCT SPECIFIC NOTICES

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