Human/Mouse Desmocollin-1 Alexa Fluor® 700-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 772906

Catalog Number: FAB7367N

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse Desmocollin-1 in ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human Desmocollin-1 is observed, and no cross-reactivity with recombinant mouse Desmocollin-2 or -3 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 772906
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Desmocollin-1 Arg135-Lys691 Accession # P55849
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.*

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10^6 cells	B16-F1 mouse melanoma cell line and A549 human lung carcinoma cell line

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-1 (Desmocollin [Greek for "glue-that-binds"]-1) is an approximately 95-110 kDa member of the Ca^{++}-dependent cadherin family of adhesion molecules. It is found on the surface of stratified epithelial cells, including the spinous and granular layers of keratinized and nonkeratinized epithelia of the oral cavity and skin. DSC-1 expression is induced by DSG-1. It serves as a component of desmosomes, forming a linkage that unites adjacent cells with cytoplasmic intermediate filaments. In particular, homodimeric DSC-1 may form heterotypic interactions with DSG-1 in-trans, and bind to the cytoskeleton intracellularly via plakophilin-1. Mature mouse DSC-1 is a 760 amino acid (aa) type I transmembrane glycoprotein (aa 135-691). The mature molecule contains a 557 aa extracellular region with five cadherin domains (aa 135-682), and a 172 aa cytoplasmic domain. There is one splice variant that shows an 11 aa substitution for aa 822-886. Over aa 135-691, mouse DSC-1 shares 82% aa sequence identity with human DSC-1.

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