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DATA SHEET

Mouse Anti-Desmocollin-1/DSC1 [A4]: MC0332, MC0332RTU7

Intended Use: For Research Use Only

Description: Desmocollin-1, also known as Cadherin family member 1 (CDHF1), is encoded by the DSC1 gene in human. Desmocollin-1 is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. Desmocollins, along with the desmogleins, are found primarily in epithelial cells where they constitute the desmosomes, a type of cell junction required for cell adhesion. Desmocollins contain an amino-terminal extracellular domain or ectodomain or EC domain that is followed by a transmembrane domain and a carboxyl-terminal intracellular domain. The extracellular domain mediates intercellular interactions in the desmosome whereas the intracellular domain mediates Desmocollin interaction with intermediate filaments. The DSC1 gene comprises 17 exons spanning approximately 33 kb on 18q12.1, and the DSC3 gene comprises 17 exons spanning approximately 49 kb on 18q12.1. Alternative splicing gives rise to two DSC1 and DSC3 isoforms, designated 1A and 1B, and 3A and 3B, respectively, which differ in their carboxy termini. DSC1 and DSC3 may contribute to epidermal cell positioning by mediating differential adhesiveness between cells that express different isoforms.

Specifications

Clone:	A4
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, mouse, rat
Immunogen:	Fragment of human DSC1 an internal region aa 311-350
Localization:	Membrane, cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA, IF, IP, WB

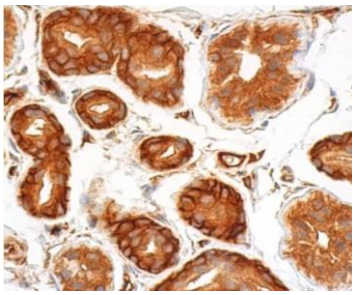
Package:

Description	Catalog No.	Size
Desmocollin-1/DSC1 Concentrated	MC0332	1 ml
Desmocollin-1/DSC1 Prediluted	MC0332RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Tonsil, skin
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human sweat gland tissue stained with anti-DSC1 using DAB

References:

1. CircRAB11FIP1 promoted autophagy flux of ovarian cancer through DSC1 and miR-129. Zhanqin Zhang, et al. Cell Death Dis. Feb 26;12(2):219, 2021.
2. Adolescent idiopathic scoliosis associated POC5 mutation impairs cell cycle, cilia length and centrosome protein interactions. Amani Hassan, et al. PLoS One. Mar 7;14(3), 2019.

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