

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-888-267-4436 Fax: +1-301-340-8606 techsupport@origene.com **OriGene Technologies GmbH**

Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info-de@origene.com

BM5102	Monoclonal Antibody to Desmocollin-1 - Purified
Alternate names: Quantity:	CDHF1, Cadherin family member 1, DG2/DG3, DSC1, Desmosomal glycoprotein 2/3 50 µg
Background:	Desmocollin 1 is a component of intercellular desmosome junctions. It is involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. It may contribute to epidermal cell positioning (stratification) by mediating differential adhesiveness between cells that express different isoforms. Desmocollin 1 is linked to the keratinization of epithelial tissues.
Uniprot ID:	<u>Q08554</u>
NCBI:	<u>NP_004939.1</u>
GenelD:	<u>1823</u>
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	Dsc-1-U100
Immunogen:	Synthetic peptide corresponding to sequence present within the intracellular part of Human Desmocollin 1 AA Sequence: HQTLESVKGVGQGDTGRYATDWQC
Format:	State: Lyophilized purified IgG fraction Purification: Affinity Chromatography on Protein A Buffer System: PBS buffer, pH 7.4 containing 0.09% Sodium Azide as preservative and 0.5% BSA as stabilizer Reconstitution: Restore in 1 ml dist. water.
Applications:	 Imunoblotting (Western). Immunohistochemistry on Frozen Sections: For better resolution on Frozen Sections preincubation (directely after fixation) with 0.05-0.2% Triton X-100, for 5-10 min, depending on tissue type is recommended (see Ref.2). Without detergent pretreatment a cytoplasmic component might cross-react (e.g. in fibroblasts). Immunohistochemistry on Paraffin-Embedded Sections (after microwave treatment): A slight crossreactivity with a lymphocyte subpopulation is abolished by mild trypsinization after the microwave step. Working Dilution: After reconstitution dilute further 1/10 in PBS (pH 7.4) for Immunohistochemistry. Incubation Time: 1h at RT for Immunohistochemistry or overnight at 2-8°C. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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Specificity:	Reacts with 111 kD (form "a") and 103 kD (form "b") polypeptides (Desmocollin 1 splice forms, both at pl 5.2) from Human epidermal desmosomes. Mab localizes Dsc1 present in - suprabasal layers of interfollicular epidermis - specific cell layers (e.g. in hair follicle root sheath) - Hassall bodies (spheroidal formations of densely packed reticulum-derived cells in the thymus). Species: Human. Other species not tested.
Storage:	Stable for one year after reconstitution when stored at 2-8°C. For extended storage keep in aliquots at -20°C. Avoid repeated freeze-thaw cycles. Shelf life: one year from despatch.
General Readings:	 Nuber UA, Schäfer S, Stehr S, Rackwitz HR, Franke WW. Patterns of desmocollin synthesis in human epithelia: immunolocalization of desmocollins 1 and 3 in special epithelia and in cultured cells. Eur J Cell Biol. 1996 Sep;71(1):1-13. PubMed PMID: 8884173. Schäfer S, Stumpp S, Franke WW. Immunological identification and characterization of the desmosomal cadherin Dsg2 in coupled and uncoupled epithelial cells and in human tissues. Differentiation. 1996 May;60(2):99-108. PubMed PMID: 8641550. Moll I, Houdek P, Schäfer S, Nuber U, Moll R. Diversity of desmosomal proteins in regenerating epidermis: immunohistochemical study using a human skin organ culture model. Arch Dermatol Res. 1999 Jul-Aug;291(7-8):437-46. PubMed PMID: 10482015. Kurzen H, Moll I, Moll R, Schäfer S, Simics E, Amagai M, et al. Compositionally different desmosomes in the various compartments of the human hair follicle. Differentiation. 1998 Sep;63(5):295-304. PubMed PMID: 9810708. Akat K, Mennel HD, Kremer P, Gassler N, Bleck CK, Kartenbeck J. Molecular characterization of desmosomes in meningiomas and arachnoidal tissue. Acta Neuropathol. 2003 Oct;106(4):337-47. Epub 2003 Jul 5. PubMed PMID: 12845453.

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