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Desmoglein 1 Rabbit mAb

Catalog # AP77391

Product Information

Application	WB, IHC-P, IF, ICC
Primary Accession	Q02413
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human DSG1
Purification	Affinity Chromatography
Calculated MW	113748

Additional Information

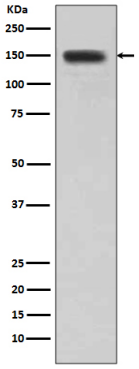
Gene ID	1828
Other Names	DSG1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

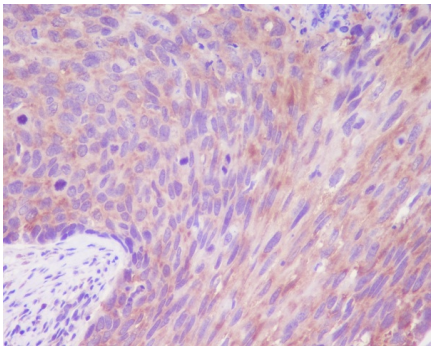
Protein Information

Name	DSG1
Synonyms	CDHF4
Function	A component of desmosome cell-cell junctions which are required for positive regulation of cellular adhesion (PubMed:19717567). Promotes differentiation of keratinocytes via interaction with ERBIN. Reduces activation of RAS/ERK signaling pathways in keratinocytes via promoting ERBIN localization to the cell membrane and its interaction with SHOC2, this competitively reduces the formation of RAS-SHOC2 ERK-activating complexes (PubMed:23524970). Mediates the interaction between the desmosome and COP9 signalosome complex (CSN) protein complex (PubMed:28891468). As a result of this interaction, promotes keratinocyte differentiation via deneddylation of EGFR resulting in a reduction in EGFR protein stabilization and translocation away from the cell membrane (PubMed:28891468). Critical for epidermal integrity and barrier function of the skin (By similarity). May

	mediate the inflammatory response in the epidermis (By similarity). Required for esophageal epithelial barrier integrity and correct intercellular spacing in differentiated esophageal epithelium (PubMed:24220297). Required for recovery of epidermal architecture and correct expression of differentiation markers following UVB exposure (PubMed:24594668). May also be required for OCLN involvement in tight junctions (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein {ECO:0000250|UniProtKB:Q7TSF1}. Cell junction, desmosome. Cytoplasm. Nucleus
Tissue Location	Expressed in all suprabasal layers of the epidermis, with the highest expression seen in the granular layer (at protein level) (PubMed:34905516). Expressed in the suprabasal esophageal epithelium (at protein level) (PubMed:24220297)

Images





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