10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Desmocollin 3 Rabbit mAb

Catalog # AP74874

Product Information

Application	WB, FC
Primary Accession	Q14574
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	99969

Additional Information

Gene ID	1825
Other Names	DSC3
Dilution	WB~~1:500-1:1000 FC~~1:10~50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

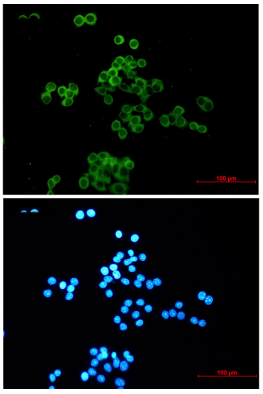
Name	DSC3
Synonyms	CDHF3, DSC4
Function	A component of desmosome cell-cell junctions which are required for positive regulation of cellular adhesion (By similarity). Required for cell-cell adhesion in the epidermis, as a result required for the maintenance of the dermal cohesion and the dermal barrier function (PubMed:19717567). Required for cell-cell adhesion of epithelial cell layers surrounding the telogen hair club, as a result plays an important role in telogen hair shaft anchorage (By similarity). Essential for successful completion of embryo compaction and embryo development (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell junction, desmosome {ECO:0000250|UniProtKB:P55850} Cytoplasm {ECO:0000250|UniProtKB:P55850}. Note=Expressed in the cytoplasm and at the cell membrane of oocytes {ECO:0000250|UniProtKB:P55850}

Tissue Location	Expressed throughout the basal and spinous layer of the epidermis with weak expression in the granular layer (at protein level) (PubMed:19717567, PubMed:7665906). Also expressed in the buccal mucosa, esophagus and cervix (at protein level) (PubMed:7665906)

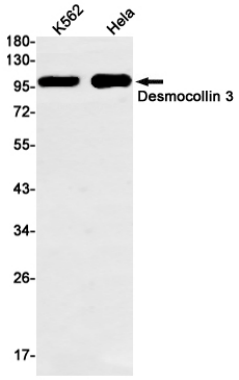
Background

Desmocollin-3 (DSC3), also known as CDHF3 and DSC4, is a member of the cadherin superfamily of calcium-dependent cell adhesion molecules and a major component of desmosomes. It has 2 isoforms with molecular masses of 100 and 93 kDa. It is particularly expressed in the vagina, testis, skin, oral mucosa and esophagus. Its subcellular localization is at the cell membrane. Post-translational modifications, including glycosylation, have been described.

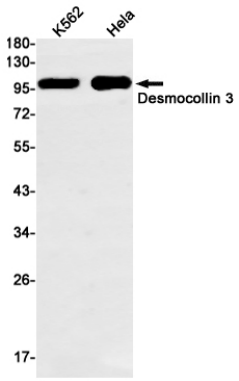
Images



Immunocytochemistry analysis of Desmocollin 3 (green) in Hela using Desmocollin 3 antibody,and DAPI(blue).



Western blot analysis of Desmocollin 3 in K562, Hela lysates using Desmocollin 3 antibody.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.