

# Recombinant Anti-DSC3 Rabbit mAb

Catalog # AP95362

## Product Information

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|-------------------|------------------------|
| Application       | WB, FC, IF/IC          |
| Primary Accession | <a href="#">Q14574</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Monoclonal             |
| Calculated MW     | 99969                  |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 1825                                                                                                                   |
| Other Names        | CDHF3; DSC4; Desmocollin-3; Cadherin family member 3; Desmocollin-4; HT-CP                                             |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within human DSC3 protein. The exact sequence is proprietary. |
| Dilution           | WB~~WB (1/500 - 1/1000) FC~~1:10~50 IF/IC~~N/A                                                                         |
| Format             | Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.                                                  |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                              |

## Protein Information

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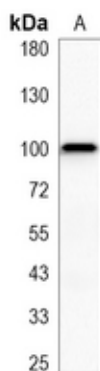
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | DSC3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Synonyms          | CDHF3, DSC4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Function          | <p>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:<a href="#">19717567</a>). 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).</p> |
| Cellular Location | <p>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}</p>                                                                                                                                                                                                                                                                                                                                              |

## Tissue Location

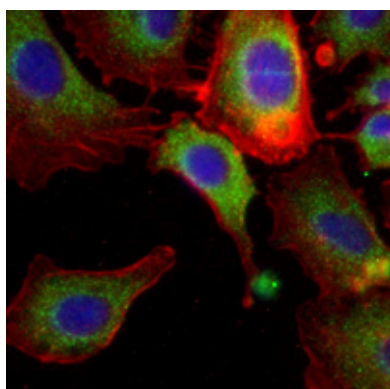
Expressed throughout the basal and spinous layer of the epidermis with weak expression in the granular layer (at protein level) (PubMed:19717567, PubMed:7665906). Also expressed in the buccal mucosa, esophagus and cervix (at protein level) (PubMed:7665906)

## Images

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Western blot analysis of DSC3 expression in A431 (A) whole cell lysates. (Predicted band size: 100 kD; Observed band size: 100 kD)



Immunofluorescent analysis of DSC3 staining in A431 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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