

Product datasheet for **AP09539SU-N**

Desmoglein 4 (DSG4) (472-590) Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	Immunohistochemistry on Cryostat Sections: 1/100. <i>Incubation Time:</i> 1 h at room temperature.
Reactivity:	Human
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Recombinant peptide corresponding to extracellular repeat domain E4 (aa 472–590) of Human Desmoglein 4.
Specificity:	Antibody AP09539SU-N recognizes Desmoglein 4 present in the hair cortex, beginning at the height of the apex of the dermal papilla and cuticle (inner root sheath) from the upper differentiated part. Also positive staining is found in the stratum granulosum of epidermis.
Formulation:	State: Serum State: Liquid Stabilized antiserum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	desmoglein 4
Database Link:	Entrez Gene 147409 Human Q86SI6



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Background:

Desmoglein 4 (DSG4) is a component of intercellular desmosome junctions. DSG4 is involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. DSG4 coordinates the transition from proliferation to differentiation in hair follicle keratinocytes. The essential role of desmoglein 4 in skin was established by identifying mutations in families with inherited hypotrichosis, as well as in the lanceolate hair mouse. The human desmoglein 4 gene (DSG4) demonstrates that it is composed of 16 exons spanning approximately 37 kb of 18q12 and is situated between DSG1 and DSG3. Defects in DSG4 are the cause of localized autosomal hypotrichosis (LAH). LAH is an autosomal recessive skin disorder. DSG4 is one of the target molecules recognized by autoantibodies in patients with pemphigus vulgaris. Pemphigus vulgaris is a potentially lethal skin disease in which epidermal blisters occur as the result of the loss of cell-cell adhesion.

Synonyms:

DSG4, CDHF13

Protein Families:

Transmembrane