

FLG2 Rabbit pAb

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Catalog # AP56121

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5D862
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	248073
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human FLG2
Epitope Specificity	41-150/2391
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Profilaggrin is a large, insoluble, highly phosphorylated precursor protein and major component of keratohyalin granules in the living cells of the epidermis. During terminal differentiation of the epidermis, profilaggrin is proteolytically processed into active Filaggrin molecules that promote aggregation and disulfide-bond formation of keratin intermediate filaments. Active Filaggrin is present at a level of the epidermis where keratinocytes are in transition between the live nucleated granular layer and the anucleate cornified layer, suggesting that Filaggrin aids in the terminal differentiation process by facilitating apoptotic machinery. Filaggrin 2, also known as FLG2, Ifapsoriasin or IFPS (intermediate filament-associated and psoriasis-susceptibility protein), is a 2,391 amino acid protein that shares common structural features with Filaggrin. Filaggrin 2 contains ten Filaggrin repeats, two EF-hand domains and belongs to both the S-100 and S100-fused protein families.

Additional Information

Gene ID	388698
Other Names	Filaggrin-2, FLG-2, Intermediate filament-associated and psoriasis-susceptibility protein, Ifapsoriasin, FLG2, IFPS
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	FLG2
Synonyms	IFPS
Function	Essential for normal cell-cell adhesion in the cornified cell layers (PubMed: 29758285). Important for proper integrity and mechanical strength of the stratum corneum of the epidermis (PubMed: 29505760).
Cellular Location	Cytoplasm. Cytoplasmic granule. Note=In the stratum corneum of the epidermis, dispersed diffusely throughout the cytoplasm, while in the stratum granulosum, localized within keratohyalin granules (PubMed:19384417, PubMed:21531719). In granular keratinocytes and in lower corneocytes, colocalizes with calpain-1/CAPN1
Tissue Location	Expressed in skin, thymus, stomach and placenta, but not detected in heart, brain, liver, lung, bone marrow, small intestine, spleen, prostate, colon, adrenal gland, kidney, pancreas, mammary gland, bladder, thyroid, salivary gland and trachea. Weakly expressed in esophagus, tonsils and testis (at protein level). In the skin, strongly expressed in the upper stratum granulosum and lower stratum corneum, but not detected in the upper stratum corneum (at protein level) (PubMed:19384417, PubMed:21531719). In scalp hair follicles, mainly restricted within the granular and cornified cells surrounding the infundibular outer root sheath, with weak expression in central and proximal outer root sheath (at protein level). Tends to be down-regulated in sporadic lesions compared to non-lesional skin in the same patients (PubMed:19384417).

Background

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