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Anti-Filaggrin Antibody
Mouse Monoclonal Antibody
Catalog # AH13220

Specification

Anti-Filaggrin Antibody - Product Information

Application	**,14,3,4,**
Primary Accession	P20930
Other Accession	654510
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse / IgG1, kappa**
Calculated MW	**435170**

Anti-Filaggrin Antibody - Additional Information

Gene ID 2312

Other Names
ATOD2; Epidermal Filaggrin; Filaggrin; Filaggrin precursor; Fillagrin; FLG; Profilaggrin

Format
200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage
Store at 2 to 8°C.Antibody is stable for 24 months.

Precautions
Anti-Filaggrin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-Filaggrin Antibody - Protein Information

Name FLG

Function
Aggregates keratin intermediate filaments and promotes disulfide-bond formation among the intermediate filaments during terminal differentiation of mammalian epidermis.

Cellular Location
Cytoplasmic granule. Note=In the stratum granulosum of the epidermis, localized within keratohyalin granules (PubMed:1429717). In granular keratinocytes and in lower corneocytes, colocalizes with calpain-1/CAPN1 (PubMed:21531719).

Tissue Location
Expressed in skin, thymus, stomach, tonsils, testis, placenta, kidney, pancreas, mammary gland,

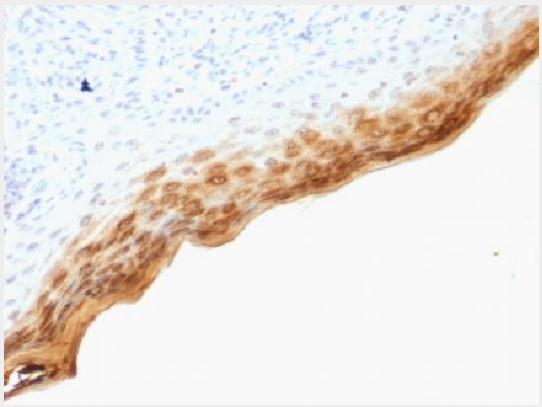
bladder, thyroid, salivary gland and trachea, but not detected in heart, brain, liver, lung, bone marrow, small intestine, spleen, prostate, colon, or adrenal gland (PubMed:19384417). In the skin, mainly expressed in stratum granulosum of the epidermis (PubMed:1429717) (PubMed:19384417)

Anti-Filaggrin Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Filaggrin Antibody - Images



Formalin-fixed, paraffin-embedded human Skin stained with Filaggrin Monoclonal Antibody (SPM181).

Anti-Filaggrin Antibody - Background

Filaggrin is an intermediate filament-associated protein that aggregates keratin intermediate filaments in mammalian epidermis. It is initially synthesized as a polyprotein precursor, profilaggrin (consisting of multiple filaggrin units of 324 aa each), which is localized in keratohyalin granules, and is subsequently proteolytically processed into individual functional filaggrin molecules. 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.