

## Rabbit Filaggrin Monoclonal Antibody | anti-FLG antibody

Filaggrin (Keratinocyte Differentiation Marker)

| CATALOG # | HOST   | REACTIVITY                | APPLICATIONS                                                               |
|-----------|--------|---------------------------|----------------------------------------------------------------------------|
| AAA62979  | Rabbit | Human. Others not tested. | Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay |

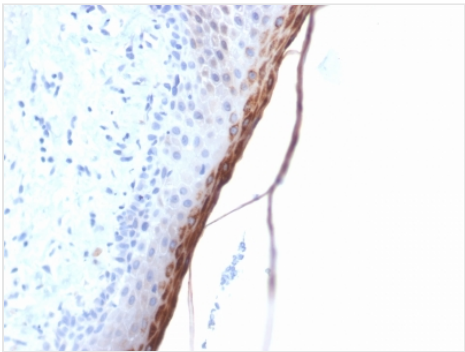
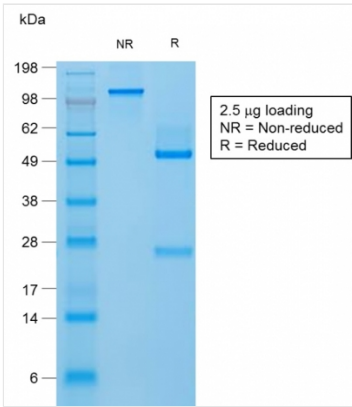
### PRODUCT SYNONYMS

Filaggrin; Monoclonal Antibody; Filaggrin (Keratinocyte Differentiation Marker); ATOD2; Epidermal Filaggrin; Filaggrin precursor; Fillagrin; FLG; Profilaggrin; anti-FLG antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                    | Human. Others not tested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Isotype                                       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                  | FLG/1957R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Specificity                                   | Filaggrin is an intermediate filament-associated protein that aggregates keratin intermediate filaments in mammalian epidermis. It is initially synthesized as a polypeptide 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. |
| Form/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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Sequence Length                               | 4061                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-FLG antibody | IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen                                     | Recombinant fragment of human Filaggrin protein (aa 198-288)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Cellular Localization                         | Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hu-chromosome Location                        | 1q21.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Positive Control                              | U-251-MG cells or Skin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                       | Antibody with azide - store at 2 to 8 degree C.<br>Antibody without azide - store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

IMAGES



**IHC (Immunohistochemistry)**  
Formalin-fixed, paraffin-embedded human Skin stained with Filaggrin Rabbit Recombinant Monoclonal Antibody (FLG/1957R).

**SDS-PAGE**  
SDS-PAGE Analysis of Purified Filaggrin Rabbit Recombinant Monoclonal Antibody (FLG/1957R).

ADDITIONAL INFORMATION

|            |                                                                                                                                |
|------------|--------------------------------------------------------------------------------------------------------------------------------|
| References | Gan, S.Q., et al. 1990. Organization, structure, and polymorphisms of the human profilaggrin gene. Biochemistry 29: 9432-9440. |
|------------|--------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 60097902                                    |
| NCBI GeneID                      | 2312                                        |
| NCBI Accession #                 | NP_002007.1                                 |
| NCBI GenBank Nucleotide #        | NM_002016.1                                 |
| UniProt Accession #              | P20930; Q01720; Q5T583; Q9UC71              |
| Molecular Weight                 | 26-45kDa (Processed); 350kDa (Profilaggrin) |
| NCBI Official Full Name          | filaggrin                                   |
| NCBI Official Synonym Full Names | filaggrin                                   |
| NCBI Official Symbol             | FLG                                         |
| NCBI Official Synonym Symbols    | ATOD2                                       |
| NCBI Protein Information         | filaggrin                                   |
| UniProt Protein Name             | Filaggrin                                   |
| UniProt Gene Name                | FLG                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.