# Filaggrin (Keratinocyte Differentiation Marker) Antibody

Mouse Monoclonal Antibody [Clone FLG/1945]

| Catalog No | Format | Size |
|---|---|---|
| 2312-MSM5-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 2312-MSM5-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 2312-MSM5-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

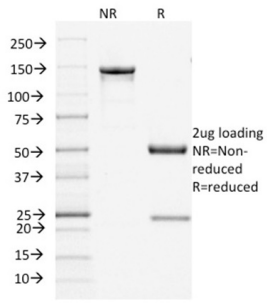
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

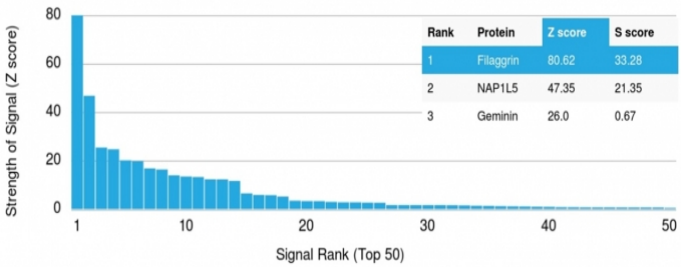
| | |
|---|---|
| **Clone** | FLG/1945 |
| **Gene Name** | FLG |
| **Immunogen** | Recombinant human Filaggrin protein fragment (around aa 998-1104) (exact sequence is proprietary) |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | 26-45kDa (Processed); 350kDa (Profilaggrin) |
| **Cellular Localization** | Cytoplasmic granule |
| **Species Reactivity** | Human |
| **Positive Control** | U-251-MG cells. Skin. |

**Optimal dilution for a specific application should be determined.*

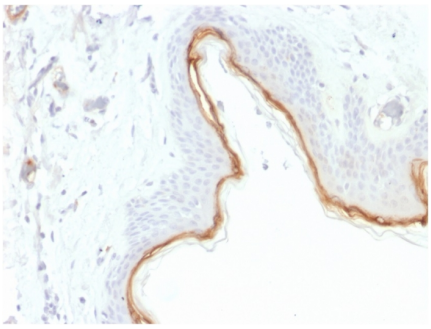
## Product Images for Filaggrin (Keratinocyte Differentiation Marker) Antibody




SDS-PAGE Analysis of Purified Filaggrin Mouse Monoclonal Antibody (FLG/1945). Confirmation of Integrity and Purity of Antibody.




Analysis of Protein Array containing more than 19,000 full-length human proteinsusing Filaggrin Mouse Monoclonal Antibody (FLG/1945). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (Monoclonal Antibody) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a Monoclonal Antibody to its intended target. A Monoclonal Antibody is considered to specific to its intended target, if the Monoclonal Antibody has an S-score of at least 2.5. For example, if a Monoclonal Antibody binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that Monoclonal Antibody to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human Skin stained with Filaggrin Mouse Monoclonal Antibody (FLG/1945).

## Specificity & Comments

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.

## Supplied As

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 and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Autophagy, Developmental Biology

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.