

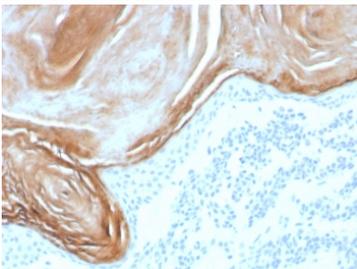
Kallikrein 7 Antibody Recombinant Rabbit MAb KLK7/8971R / KLK7 [clone KLK7/8971R] (V4652)

Catalog No.	Formulation	Size
V4652-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4652-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4652SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

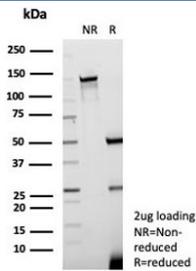
Recombinant **RABBIT MONOCLONAL**

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Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	KLK7/8971R
Purity	Protein A/G affinity
UniProt	P49862
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Kallikrein 7 antibody is available for research use only.



Kallikrein 7 Antibody Recombinant Rabbit MAb KLK7/8971R immunohistochemistry analysis of Kallikrein 7 / KLK7 in human skin tissue. FFPE human skin tissue was stained with Kallikrein 7 Antibody Recombinant Rabbit MAb clone KLK7/8971R following heat induced epitope retrieval by boiling tissue sections in pH 9 Tris-EDTA buffer (10mM Tris, 1mM EDTA) for 20 minutes prior to cooling and staining. HRP-DAB brown chromogenic signal highlights strong staining in the outer epidermal layers near the stratum corneum where differentiated keratinocytes are present, consistent with the known localization of Kallikrein 7 (KLK7), also known as stratum corneum chymotryptic enzyme, in epidermal structures involved in desquamation and skin barrier turnover. Detection of KLK7 expression by immunohistochemistry supports studies of epidermal differentiation, keratinocyte biology, and dermatological disease research using Kallikrein 7 Antibody Recombinant Rabbit MAb (clone KLK7/8971R).



SDS-PAGE analysis of purified, BSA-free recombinant Kallikrein 7 antibody (clone KLK7/8971R) as confirmation of integrity and purity.

Description

Kallikrein related peptidase 7 (KLK7) is a secreted serine protease that belongs to the human kallikrein family of trypsin-like enzymes and plays an important role in epidermal homeostasis. KLK7 is highly expressed in differentiated keratinocytes of the epidermis and contributes to the controlled degradation of corneodesmosomal proteins that maintain adhesion between corneocytes. This proteolytic activity is essential for normal desquamation and skin barrier turnover. Kallikrein 7 Antibody Recombinant Rabbit MAb clone KLK7/8971R recognizes this epidermal protease and enables detection of KLK7 expression in studies examining epidermal differentiation and skin biology.

KLK7 is also commonly referred to as stratum corneum chymotryptic enzyme (SCCE) and functions as a chymotrypsin-like protease involved in the regulated shedding of corneocytes from the outermost layer of the skin. Expression of KLK7 is tightly controlled within the epidermis and is primarily localized to the upper layers of the stratified epithelium where terminal keratinocyte differentiation occurs. Antibodies directed against KLK7 allow researchers to examine epidermal structure, keratinocyte maturation, and mechanisms governing skin barrier maintenance.

Kallikrein 7 has been implicated in several dermatological conditions in which epidermal barrier function and protease activity are altered. Dysregulated KLK7 activity has been associated with inflammatory skin diseases and abnormal desquamation processes. Because of its role in epidermal physiology, detection of KLK7 expression is valuable in studies of skin biology, keratinocyte differentiation, and epithelial tissue remodeling.

Kallikrein 7 Antibody Recombinant Rabbit MAb clone KLK7/8971R is designed to recognize KLK7 in epithelial tissues and biological samples used for dermatological and epithelial research. The antibody supports investigation of KLK7 expression patterns in skin tissue, epithelial structures, and experimental models examining epidermal differentiation.

Detection of KLK7 using Kallikrein 7 Antibody Recombinant Rabbit MAb (clone KLK7/8971R) enables analysis of epidermal protease expression and supports research investigating skin barrier function, keratinocyte biology, and the molecular regulation of desquamation in epithelial tissues.

Application Notes

Optimal dilution of the Kallikrein 7 Antibody Recombinant Rabbit MAb KLK7/8971R should be determined by the researcher.

Immunogen

A recombinant fragment of human KLK7 protein (within amino acids 1-200) was used as the immunogen for the recombinant Kallikrein 7 antibody.

Storage

Aliquot the Kallikrein 7 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

KLK7 antibody, Stratum corneum chymotryptic enzyme antibody, SCCE antibody, Human kallikrein 7 antibody, PRSS6 antibody

