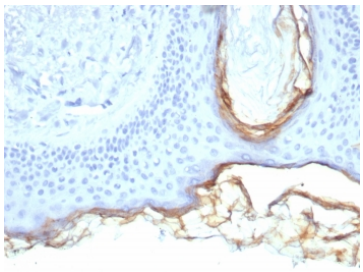
Kallikrein 5 Antibody / KLK5 [clone KLK5/4760] (V4625)

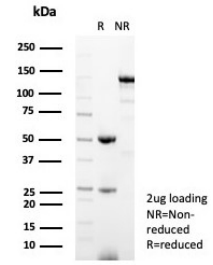
Catalog No.	Formulation	Size
V4625-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4625-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4625SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	KLK5/4760
Purity	Protein A/G affinity
UniProt	Q9Y337
Localization	Secreted
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Kallikrein 5 antibody is available for research use only.



Kallikrein 5 Antibody Skin Epidermis IHC. Immunohistochemistry staining of FFPE human skin tissue with Kallikrein 5 antibody (clone KLK5/4760). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free Kallikrein 5 antibody (clone KLK5/4760) as confirmation of integrity and purity.

Description

Kallikreins (KLKs) belong to the serine protease family of proteolytic enzymes. Human pancreatic/renal KLK encodes for the KLK1 enzyme, which is involved in post-translational processing of polypeptide precursors. The function of the other members of KLK gene family is still currently unknown, but evidence suggests that many KLKs are implicated in carcinogenesis. The human KLK gene family consists of 15 serine proteases. The human KLK genes are clustered on chromosome 19q13. Unlike other kalllikreins, the KLK4-15 encoded proteases are less related and do not contain a conventional KLK loop. Clusters of genes exhibit high prostatic (KLK2-4, KLK15) or pancreatic (KLK6-13) expression. KLK2 is also known as glandular kallikrein 2, tissue kallikrein, or HGK-1 and KLK3 is known as prostate-specific antigen (PSA). Both KLK2 and KLK3 have important applications in prostate cancer and breast cancer diagnostics. Many of the KLKs are regulated by steroid hormones and a few of them, specifically KLK3, KLK6 and KLK10, are known to be downregulated in breast and other cancers. KLK5 expression is abundant in skin, mammary gland and testis.

For highly specific detection of KLK5-associated epithelial barrier signaling pathways, see our Kallikrein 5 Antibody / Epidermal Barrier Protease Antibody page featuring clone KLK5/3841 with IHC and HuProt(TM) microarray specificity validation data.

Application Notes

Optimal dilution of the Kallikrein 5 antibody should be determined by the researcher.

Immunogen

A recombinant fragment of human KLK5 protein (within amino acids 1-200) was used as the immunogen for the Kallikrein 5 antibody.

Storage

Aliquot the Kallikrein 5 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

KLK5 antibody, Kallikrein related peptidase 5 antibody, Kallikrein-like protein 2 antibody, KLK-L2 antibody, KLKL2 antibody, Stratum corneum tryptic enzyme antibody, SCTE antibody

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