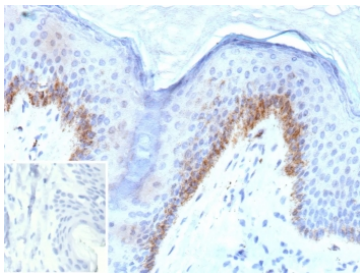
Kallikrein 4 Antibody / KLK4 [clone KLK4/8943] (V5828)

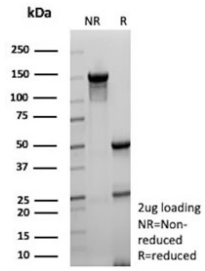
Catalog No.	Formulation	Size
V5828-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5828-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5828SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	KLK4/8943
Purity	Protein G affinity
UniProt	Q9Y5K2
Localization	Secreted
Applications	Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This Kallikrein 4 antibody is available for research use only.



IHC staining of FFPE human dkin tissue with PSAP antibody (clone KLK4/8943). Inset: PBS used in place of primary Ab (secondary Ab negative control). 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 4 antibody (clone KLK4/8943) 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. KLK4 expression is abundant in skin, mammary gland and testis.

Application Notes

Optimal dilution of the Kallikrein 4 antibody should be determined by the researcher.

Immunogen

A recombinant partial protein from human KLK4 protein (within amino acids 1-200) was used as the immunogen for the Kallikrein 4 antibody.

Storage

Aliquot the Kallikrein 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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