

Mouse anti-Human Kallikrein 5 (KLK5) Monoclonal Antibody | anti-KLK5 antibody

Kallikrein 5 (KLK5)

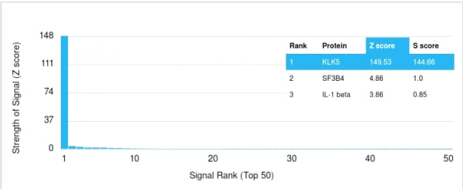
CATALOG # AAA215419	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

Kallikrein 5 (KLK5); Monoclonal Antibody; HK5; Kallikrein L2; Kallikrein like protein 2; Kallikrein related peptidase 5; Kallikrein-like protein 2 (KLKL2); Stratum corneum tryptic enzyme (SCTE); anti-KLK5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	KLK5/3845
Specificity	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 kallikreins, 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 identification. 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.
Purity/Purification	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	1.0mg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G.
Sequence Length	293
Applicable Applications for anti-KLK5 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant fragment of Human KLK5 protein (around aa 36-177) (exact sequence is proprietary)
Cellular Localization	Secreted
Human Unigene	50915
Hu-chromosome Location	19q13.33
Positive Control	Human skin tissue (IHC). MCF-7 cell lysates.
Preparation and Storage	Antibody without azide: store at -20°C. Non-hazardous. No MSDS required.



Application Data
Analysis of Protein Array containing more than 19,000 full-length human proteins using Kallikrein 5 Mouse Monoclonal Antibody (KLK5/3845) 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 HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) 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.

ADDITIONAL INFORMATION

References	Diamandis, E.P., et al. 2000. The new human kallikrein gene family: implications in carcinogenesis. Trends Endocrinol. Metab. 11: 54-60
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NCBI AND UNIPROT INFORMATION

NCBI GI #	296434569
NCBI GeneID	25818
UniProt Accession #	Q9Y337
Molecular Weight	33kDa
NCBI Official Full Name	Kallikrein-5
UniProt Protein Name	Kallikrein-5
UniProt Gene Name	KLK5
UniProt Synonym Gene Names	SCTE; KLK-L2
UniProt Entry Name	KLK5_HUMAN

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