

AP16633PU-N**Polyclonal Antibody to KLK5 / Kallikrein-5 - Aff - Purified**

Alternate names:	KLK-5, KLK-L2, Kallikrein-Like Protein 2, SCTE, Stratum corneum tryptic enzyme
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	Kallikrein 5 was originally described from the skin as an enzyme involved in turnover of the stratum corneum, and later cloned from human EST libraries as a Kallikrein like enzyme. The skin is known to contain trypsin like and chymotrypsin like proteinases of 32 kDa and 25 kDa respectively, and these were determined to be hK5 and hK7. Kallikrein 5 is found in greatest abundance in the skin, and also in the brain, with lesser signal in the kidney, lung, mammary gland, and testis. Human breast milk is reported to contain high levels of Kallikrein 5. Less stringent PCR detects hK5 in many tissues, and analysis of cell lines by Western blot shows that many cell lines make hK5.
Uniprot ID:	Q9Y337
NCBI:	NP_001070959.1
GenelD:	25818
Host:	Goat
Immunogen:	Peptide with sequence KAGRDSCQGD, from the internal region of the protein sequence
Format:	State: Liquid purified Ig fraction. Purification: Affinity Chromatography. Buffer System: Tris saline, pH 7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer.
Applications:	Peptide ELISA: 1/4000. Western Blot: 0.1-0.3 µg/ml. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes KLK5.
Species Reactivity:	Tested: Human. Expected from sequence similarity: Rat and Canine.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Michael IP, Pampalakis G, Mikolajczyk SD, Malm J, Sotiropoulou G, Diamandis EP. Human tissue kallikrein 5 is a member of a proteolytic cascade pathway involved in seminal clot liquefaction and potentially in prostate cancer progression. J Biol Chem. 2006 May 5;281(18):12743-50. Epub 2006 Mar 3. PMID: 16517595

Pictures:

TA303202 (0.1µg/ml) staining of Human Prostate lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

