

**Goat Anti-KLK5 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1600a****Specification**

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**Goat Anti-KLK5 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O9Y337</a>
Other Accession	<a href="#">NP_001070960</a> , <a href="#">25818</a>
Reactivity	Human
Predicted	Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5mg/ml
Isotype	IgG
Calculated MW	32020

**Goat Anti-KLK5 Antibody - Additional Information****Gene ID** 25818**Other Names**

Kallikrein-5, 3.4.21.-, Kallikrein-like protein 2, KLK-L2, Stratum corneum tryptic enzyme, KLK5, SCTE

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-KLK5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-KLK5 Antibody - Protein Information****Name** KLK5 ([HGNC:6366](#))**Function**

May be involved in desquamation.

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in skin, breast, brain and testis. Expressed at the stratum granulosum of palmar skin

**Goat Anti-KLK5 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Goat Anti-KLK5 Antibody - Images**

AF1600a (0.1 µg/ml) staining of Human Prostate lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

**Goat Anti-KLK5 Antibody - Background**

Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its expression is up-regulated by estrogens and progestins. The encoded protein is secreted and may be involved in desquamation in the epidermis. Alternative splicing results in multiple transcript variants encoding the same protein.

**Goat Anti-KLK5 Antibody - References**

Blood biomarker levels to aid discovery of cancer-related single-nucleotide polymorphisms: kallikreins and prostate cancer. Klein RJ, et al. Cancer Prev Res (Phila), 2010 May. PMID 20424135. Kallikrein expression and cathelicidin processing are independently controlled in keratinocytes by calcium, vitamin D(3), and retinoic acid. Morizane S, et al. J Invest Dermatol, 2010 May. PMID 20090765. Human kallikrein 5: an interesting novel biomarker in ovarian cancer patients that elicits humoral response. Bandiera E, et al. Int J Gynecol Cancer, 2009 Aug. PMID 19820362. The kallikrein

family of proteins as urinary biomarkers for the detection of prostate cancer. Sardana G, et al. Clin Biochem, 2009 Sep. PMID 19560453. Association between kallikrein-related peptidases (KLKs) and macroscopic indicators of semen analysis: their relation to sperm motility. Emami N, et al. Biol Chem, 2009 Sep. PMID 19558318.