

**Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP6323a****Specification**

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**Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - Product Information**Primary Accession [Q9Y5K2](#)**Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - Additional Information****Gene ID** 9622**Other Names**

Kallikrein-4, 3421-, Enamel matrix serine proteinase 1, Kallikrein-like protein 1, KLK-L1, Prostase, Serine protease 17, KLK4, EMSP1, PRSS17, PSTS

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6323a](/product/products/AP6323a) was selected from the Center region of human KLK4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - Protein Information****Name** KLK4**Synonyms** EMSP1, PRSS17, PSTS**Function**

Has a major role in enamel formation (PubMed: [15235027](http://www.uniprot.org/citations/15235027)). Required during the maturation stage of tooth development for clearance of enamel proteins and normal structural patterning of the crystalline matrix (By similarity).

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in prostate.

#### **Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - Images**

#### **Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - 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. In some tissues KLK4 expression is hormonally regulated. The expression pattern of a similar mouse protein in murine developing teeth supports a role for the protein in the degradation of enamel proteins.

#### **Kallikrein 4 (KLK4) Antibody (Center) Blocking peptide - References**

Hart, P.S., et al., J. Med. Genet. 41(7):545-549 (2004). Xi, Z., et al., Cancer Res. 64(7):2365-2370 (2004). Hural, J.A., et al., J. Immunol. 169(1):557-565 (2002). Takayama, T.K., et al., Biochemistry 40(50):15341-15348 (2001). Korkmaz, K.S., et al., DNA Cell Biol. 20(7):435-445 (2001).