

**Kallikrein 8 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP6327b**

**Specification**

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**Kallikrein 8 Antibody (Center) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">O60259</a>
Reactivity	<b>Mouse</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>28048</b>
Antigen Region	<b>143-172</b>

**Kallikrein 8 Antibody (Center) - Additional Information**

**Gene ID** 11202

**Other Names**

Kallikrein-8, hK8, Neuropsin, NP, Ovasin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein, KLK8, NRPN, PRSS19, TADG14

**Target/Specificity**

This Kallikrein 8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 143-172 amino acids from the Central region of human Kallikrein 8.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

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

**Precautions**

Kallikrein 8 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**Kallikrein 8 Antibody (Center) - Protein Information**

**Name** KLK8

**Synonyms** NRPN, PRSS19, TADG14

**Function** Serine protease which is capable of degrading a number of proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Also cleaves L1CAM in response to increased neural activity. Induces neurite outgrowth and fasciculation of cultured hippocampal neurons. Plays a role in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway, regulates Schaffer-collateral long-term potentiation in the hippocampus and is required for memory acquisition and synaptic plasticity. Involved in skin desquamation and keratinocyte proliferation. Plays a role in the secondary phase of pathogenesis following spinal cord injury.

#### **Cellular Location**

Secreted. Cytoplasm. Note=Shows a cytoplasmic distribution in the keratinocytes

#### **Tissue Location**

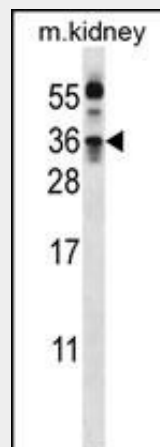
Isoform 1 is predominantly expressed in the pancreas. Isoform 2 is expressed in adult brain and hippocampus Isoform 1 and isoform 2 are found in fetal brain and placenta. Detected in salivary gland, uterus, thymus, breast, testis and kidney but not in spleen, liver, lung or normal ovarian tissue. Displays an 11.5-fold increase in Alzheimer disease hippocampus compared to controls and is overexpressed in some ovarian carcinomas. Expressed at low levels in normal skin while high levels are found in psoriasis vulgaris, seborrheic keratosis, lichen planus and squamous cell carcinoma skin samples. Expressed in the keratinocytes.

### **Kallikrein 8 Antibody (Center) - Protocols**

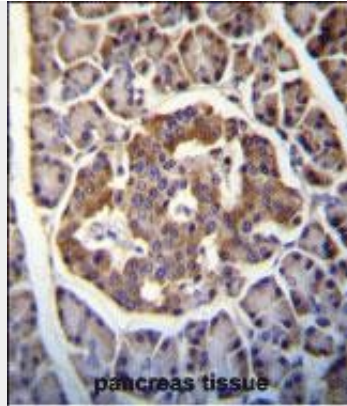
Provided below are standard protocols that you may find useful for product applications.

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

### **Kallikrein 8 Antibody (Center) - Images**



KLK8 Antibody (G158) (Cat. #AP6327b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the KLK8 antibody detected the KLK8 protein (arrow).



Kallikrein 8(KLK8) Antibody (Center) (Cat. #AP6327b) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Kallikrein 8(KLK8) Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **Kallikrein 8 Antibody (Center) - 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. There are four different KLK8 isoforms, each exhibiting distinct patterns of expression that suggest roles in brain plasticity and ovarian cancer.

#### **Kallikrein 8 Antibody (Center) - References**

- Li, Y., et al., Mol. Biol. Evol. 21(11):2111-2115 (2004).
- Shigemasa, K., et al., Oncol. Rep. 11(6):1153-1159 (2004).
- Cane, S., et al., Am. J. Obstet. Gynecol. 190(1):60-66 (2004).
- Clark, H.F., et al., Genome Res. 13(10):2265-2270 (2003).
- Magklara, A., et al., Clin. Cancer Res. 7(4):806-811 (2001).