

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

Specification

Kallikrein 8 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	O60259
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28048
Antigen Region	143-172

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

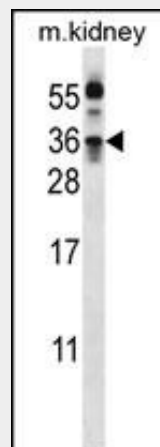
Isoform 1 is predominantly expressed in the pancreas. Isoform 2 is expressed in adult brain and hippocampus Isoform 1 and isoform 2 are found in fetal brain and placenta. Detected in salivary gland, uterus, thymus, breast, testis and kidney but not in spleen, liver, lung or normal ovarian tissue. Displays 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

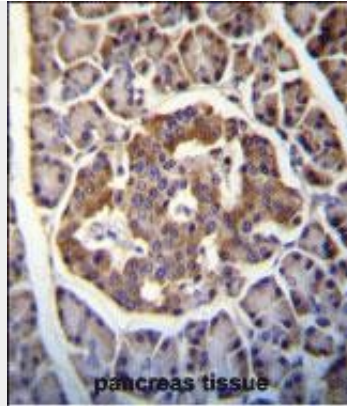
Provided below are standard protocols that you may find useful for product applications.

- [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).