

## KLK8 Polyclonal Antibody

Catalog: BS65928	Host: Rabbit	Reactivity: Hu- man, Mouse, Rat, Dog, Pig, Cow, Horse, Guinea Pig,
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### BackGround:

Kallikrein 8 (hK8), also known as neuropsin, brain serine protease 1 (BSP1), tumor associated differentially expressed gene 14 (TADG14), PRSS19, HNP and ovasin, is a trypsin like serine protease. Originally described from mouse brain, KLK8 was implicated in neural plasticity and learning. Kallikrein 8 is thought to be involved in neurite outgrowth and fasciculation during nervous system development. Kallikrein 8 is induced in neurite injury, and Kallikrein 8 has been shown to be elevated in the hippocampus on Alzheimer's patients' brains. Animal models of autoimmune encephalomyelitis (EAE) show elevated Kallikrein 8 production. Kallikrein 8 null mice have aberrant synapses in their hippocampus, compared to wild type mice, and are predisposed to seizures. Kallikrein 8 is thought to regulate the early phase of long-term potentiation (LTP), possibly by cleaving fibronectin and other substrates. Kallikrein 8 is also found in the uterus, where it is hormonally regulated. Cervical cancer cell lines express high levels of Kallikrein 8, and it may be useful as a tumor marker. Kallikrein 8 is not limited to the brain and uterus, as many tissues and cell lines make the protein. Endogenous inhibitors include serine protease inhibitor 3 and protein C inhibitor, although Kallikrein 8 can be found complexed to a number of different protease inhibitors.

### Product:

0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

### Molecular Weight:

28kDa

### Swiss-Prot:

Q61955

### Purification&Purity:

affinity purified by Protein A

### Applications:

IHC-P=1:100-500

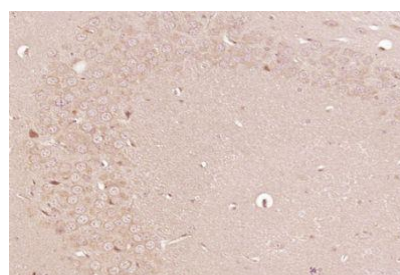
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

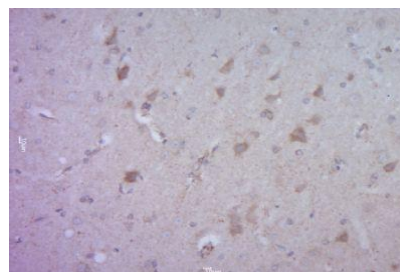
### Specificity:

KLK8 Polyclonal Antibody detects endogenous levels of KLK8 protein.

### DATA:



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37 °C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4 °C



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Block-

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## PRODUCT DATA SHEET

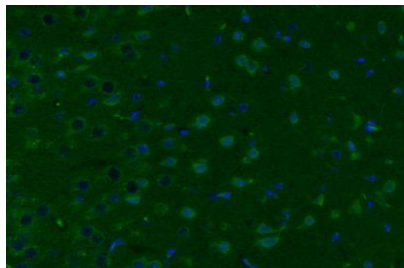
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ing buffer (normal goat serum) at 37 °C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated at 1:400 overnight at 4 °C

4 °C

### Note:

For research use only, not for use in diagnostic procedure.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37 °C for 30min; Antibody incubation with (KLK8) Polyclonal Antibody, Unconjugated at 1:400 overnight at

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