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KLK8 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14391a

Specification

KLK8 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O60259

KLK8 Antibody (N-term) Blocking Peptide - 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

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.

KLK8 Antibody (N-term) Blocking Peptide - 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.

KLK8 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

KLK8 Antibody (N-term) Blocking Peptide - Images

KLK8 Antibody (N-term) Blocking Peptide - Background

Kallikreins are a subgroup of serine proteases havingdiverse physiological functions. Growing evidence suggests thatmany kallikreins are implicated in carcinogenesis and some havepotential as novel cancer and other disease biomarkers. This geneis one of the fifteen kallikrein subfamily members located in acluster on chromosome 19. Alternate splicing of this gene resultsin four transcript variants encoding four different isoforms. Theisoforms exhibit distinct patterns of expression that suggest rolesin brain plasticity and ovarian cancer.

KLK8 Antibody (N-term) Blocking Peptide - References

Planque, C., et al. Clin. Chem. 56(6):987-997(2010)Klein, R.J., et al. Cancer Prev Res (Phila) 3(5):611-619(2010)Emami, N., et al. Biol. Chem. 390(9):921-929(2009)Brattsand, M., et al. J. Invest. Dermatol. 129(7):1656-1665(2009)Darling, M.R., et al. Head Neck Pathol 2(3):169-174(2008)