

Cleaved-KLK8 (V33) Polyclonal Antibody

Catalog # AP63131

Product Information

Application WB
Primary Accession O60259
Reactivity Human
Host Rabbit
Clonality Polyclonal
Calculated MW 28048

Additional Information

Gene ID 11202

Other Names KLK8; NRPN; PRSS19; TADG14; Kallikrein-8; hK8; Neuropsin; NP; Ovasin;

Serine protease 19; Serine protease TADG-14; Tumor-associated differentially

expressed gene 14 protein

Dilution WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other

applications.

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

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

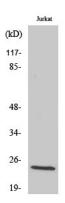
Tissue Location

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.

Background

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.

Images



Western Blot analysis of various cells using Cleaved-KLK8 (V33) Polyclonal Antibody

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