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Anti-Kallikrein 8 Antibody

Catalog # AP51304

Product Information

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

Additional Information

Gene ID	11202
Other Names	NRPN; PRSS19; TADG14; Kallikrein-8; hK8; Neuropsin; NP; Ovasin; Serine protease 19; Serine protease TADG-14; Tumor-associated differentially expressed gene 14 protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human Kallikrein 8. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

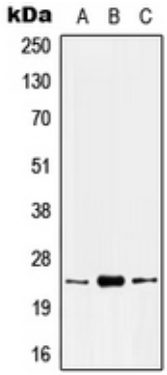
Tissue Location

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.

References

Yoshida S.,et al.Gene 213:9-16(1998).
Underwood L.J.,et al.Cancer Res. 59:4435-4439(1999).
Mitsui S.,et al.Eur. J. Biochem. 260:627-634(1999).
Gan L.,et al.Gene 257:119-130(2000).
Magklara A.,et al.Clin. Cancer Res. 7:806-811(2001).

Images



Western blot analysis of Kallikrein 8 expression in HEK293T (A), mouse kidney (B), rat kidney (C) whole cell lysates. (Predicted band size: 28 kD; Observed band size: 24 kD)

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