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KLK8 Recombinant Rabbit mAb

Catalog # AP100051

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	O60259
Other Accession	O60259
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	28048
Physical State	Liquid
Immunogen	A synthesized peptide derived from human Kallikrein 8
Epitope Specificity	220-260
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the peptidase S1 family. Kallikrein subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	11202
Other Names	HNP; NP; NRPN; PRSS19; TADG14; KLK8_HUMAN; KLK8; hK8; Neuropsin (NP); Ovasin; Serine protease 19; Serine protease TADG-14; Tumor-associated differentially expressed gene 14 protein; 3.4.21.118; kallikrein related peptidase 8; kallikrein 8 (neuropsin/ovasin)
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.