

AP09594PU-N**Kallikrein-6 Antibody (C-term) Aff - Purified Polyclonal Antibody**

Alternate names:	Neurosin, PRSS18, PRSS9, Protease M, SP59, Serine protease 18, Serine protease 9, Zyme
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	<p>Tissue kallikreins are a family of extracellular serine proteases consisting of 15 members (1, 2). The genes of this family aligned in tandem on chromosome 19q13.4 represent the largest contiguous group of proteases within the human genome. Tissue kallikreins have attracted great interest as potential biomarkers for various cancers, including prostate, ovarian, breast, testicular, and lung (2, 3). Human Kallikrein 6 (hKLK6) is a member of tissue kallikrein family observed in breast and brain tissues, colon carcinoma cells, and oligodendrocytes (1 3). Known protein substrates of hKLK6 are myelin basic protein, the precursor of the Abeta amyloid peptide, and plasminogen. Its physiological functions may include the participation in demyelination processes as well as in the progression of inflammatory disease of the CNS.</p> <p>The level of hKLK6 is reduced in brain extracts of Alzheimer patients and increased in serum of patients with ovarian cancer.</p>
Uniprot ID:	Q92876
NCBI:	NP_001012982
GeneID:	5653
Host:	Goat
Immunogen:	Peptide from the C-Terminus of Mouse Kallikrein-6 according to NP_035307.1. AA Sequence: KEKPGVYTDVCTHIR
Format:	State: Liquid purified Ig fraction Purification: Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide Buffer System: Tris saline, pH 7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer
Applications:	Peptide ELISA: Kallikrein-6 Antibody Detection limit dilution 1/16000. Western blot: 1-3 µg/ml. Approx 22kDa band observed in Mouse Liver lysates (calculated MW of 27.5kDa according to NP_035307.1). An additional band of unknown identity was also consistently observed at 48kDa. Both bands were successfully blocked by incubation with the immunising peptide. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Species Reactivity:	Tested: Mouse. Expected from sequence similarity: Rat and Cow.

Add. Information:**Related Products:**

AP13373PU-N: Rabbit anti-Human Kallikrein-6 Antibody (N-term)

AP13374PU-N: Rabbit anti-Human Kallikrein-6 Antibody (Center)

Storage:

Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

1. Emami, N. and E.P. Diamandis (2007) Clin Chim Acta 381:78.

2. Borgoño, C.A. and E.P. Diamandis (2004) Nat. Rev. Cancer, 4:876.

3. Paliouras, M. et al. (2007) Cancer Lett. 249:61.

4. Iwata A, Maruyama M, Akagi T, Hashikawa T, Kanazawa I, Tsuji S, Nukina N, Alpha-synuclein degradation by serine protease neurosin: implication for pathogenesis of synucleinopathies.

Hum Mol Genet. 2003 Oct 15;12(20):2625-35. Epub 2003 Aug 19.

PMID: 12928483

Pictures:

TA305916 staining (2ug/ml) of Mouse Liver lysate (35ug protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

