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AP16652PU-N Polyclonal Antibody to KLK1 / Kallikrein-1 - Aff - Purified

Alternate names: EC 3.4.21.35, KLK-1, Kallikrein1, Kidney/pancreas/salivary gland kallikrein, Tissue kallikrein

Quantity: 0.1 mg

Concentration: 0,5 mg/ml

Background: Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. Kallikrein 1 releases the vasoactive peptide, Lys-bradykinin, from low molecular weight kininogen. Low renal synthesis and urinary excretion of tissue kallikrein have been linked to hypertension in animals and humans and the kallikrein-kinin system may be involved in the development or progression of cardiovascular disease.

Uniprot ID: P06870

NCBI: NP_002248.1

GeneID: 3816

Host: Goat

Immunogen: Peptide with sequence PNDECKKAHVQK, from the internal region of the protein sequence

Format:
State: Liquid purified Ig
Purification: Affinity chromatography
Buffer System: Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Applications:
Peptide ELISA: 1/2000.
Western Blot: 1 - 3 µg/ml.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:
This antibody reacts to KLK1.
Species: Human.
Other species not tested.

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:
Montanari D, Yin H, Dobrzynski E, Agata J, Yoshida H, Chao J, Chao L.
Kallikrein gene delivery improves serum glucose and lipid profiles and cardiac function in streptozotocin-induced diabetic rats.
Diabetes. 2005 May;54(5):1573-80.
PMID: 15855348

Pictures:

TA302523 (0.5µg/ml) staining of Human Kidney lysate (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.