

Anti-Kallikrein 4 Picoband Antibody

Catalog # ABO11951

Product Information

Application	WB
Primary Accession	Q9Y5K2
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Kallikrein-4(KLK4) detection. Tested with WB in Human.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	9622
Other Names	Kallikrein-4, 3.4.21.-, Enamel matrix serine proteinase 1, Kallikrein-like protein 1, KLK-L1, Prostase, Serine protease 17, KLK4, EMSP1, PRSS17, PSTS
Calculated MW	27032
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Secreted.
Tissue Specificity	Expressed in prostate.
Source	Eukaryota
Protein Name	Kallikrein-4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E.coli-derived human Kallikrein 4 recombinant protein (Position: I31-S254).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Belongs to the peptidase S1 family. Kallikrein subfamily.

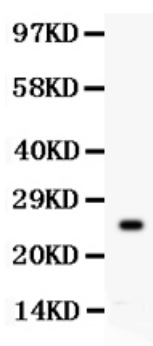
Protein Information

Name	KLK4
Synonyms	EMSP1, PRSS17, PSTS
Function	Has a major role in enamel formation (PubMed: 15235027). Required during the maturation stage of tooth development for clearance of enamel proteins and normal structural patterning of the crystalline matrix (By similarity).
Cellular Location	Secreted.
Tissue Location	Expressed in prostate.

Background

Kallikrein-related peptidase 4, also known as PSTS or EMSP1, is a protein which in humans is encoded by the KLK4 gene. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. 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. In particular, they may serve as biomarkers for both prostate cancer and breast cancer. It has been found that KLK4 is a proliferative factor with effects on gene expression and it may have a role in prostate cancer development and progression.

Images



Anti- Picoband antibody, PB, Western blottingAll lanes:
Anti Kallikrein 4 (ABO11951) at 0.5ug/mlWB: Recombinant
Human Kallikrein 4 Protein 0.5ngPredicted bind size:
25KDObserved bind size: 25KD



Anti- Picoband antibody, PB, Western blottingAll lanes:
Anti Kallikrein 4 (ABO11951) at 0.5ug/mlLane 1: 293T
Whole Cell Lysate at 40ugLane 2: MCF-7 Whole Cell Lysate
at 40ugPredicted bind size: 27KDObserved bind size:
27KD