

KLK4 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57610

Product Information

Application E

Primary Accession
Reactivity
Rat
Host
Clonality
Calculated MW
Physical State

Q9Y5K2
Rabbit
Polyclonal
27032
Liquid

Immunogen KLH conjugated synthetic peptide derived from human KLK4

Epitope Specificity 101-200/254

Isotype IgG

Purity affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted

SIMILARITY Belongs to the peptidase S1 family. Kallikrein subfamily.Contains 1 peptidase

S1 domain.

DISEASEDefects in KLK4 are the cause of amelogenesis imperfecta hypomaturation

type 2A1 (AI2A1) [MIM:204700]. AI2A1 is an autosomal recessive defect of enamel formation. The disorder involves both primary and secondary dentitions. The teeth have a shiny agar jelly appearance and the enamel is softer than normal. Brown pigment is present in middle layers of enamel. This product as supplied is intended for research use only, not for use in

Important NoteThis product as supplied is intended for research use thuman, therapeutic or diagnostic applications.

Background Descriptions 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. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. In some tissues its expression is hormonally regulated. The expression pattern of a similar mouse protein in murine developing teeth supports a role for the protein in the degradation of enamel proteins. Alternate splice variants for this gene have been described, but their biological validity has not been determined. [provided by RefSeq].

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

Target/Specificity Expressed in prostate.

Dilution ELISA=1:5000-10000

Format 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

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 KLK4

Synonyms EMSP1, PRSS17, PSTS

Function Has a major role in enamel formation (PubMed: <u>15235027</u>). 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.

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