

Rabbit anti-Human KLK4 Polyclonal Antibody | anti-KLK4 antibody

KLK4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40664	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

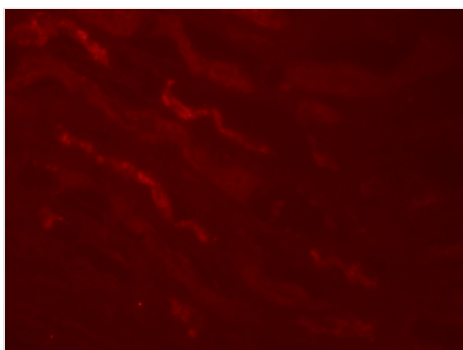
PRODUCT SYNONYMS

KLK4; Polyclonal Antibody; KLK4 Antibody; KLK4 Antibody : ARM1; EMSP; PSTS; AI2A1; EMSP1; KLK-L1; PRSS17; kallikrein; Kallikrein-4; Enamel matrix serine proteinase 1; kallikrein-related peptidase 4; anti-KLK4 antibody

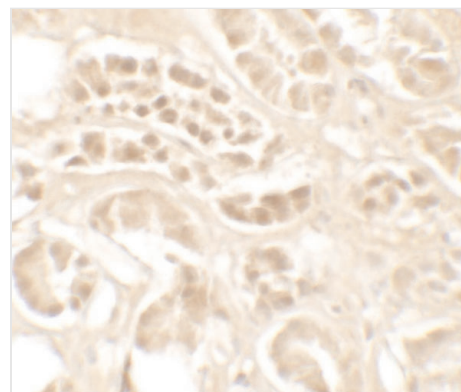
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	KLK4 antibody is human specific. At least three isoforms of KLK4 are known to exist.
Purity/Purification	KLK4 Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	254
Applicable Applications for anti-KLK4 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	KLK4 antibody was raised against a 15 amino acid peptide near the center of human KLK4.
Buffer	KLK4 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	KLK4 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

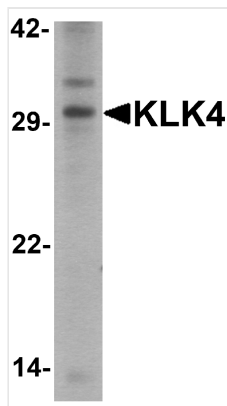
IMAGES


IF (Immunofluorescence)

Immunofluorescence of KLK4 in human kidney tissue with KLK4 antibody at 20 &#956;g/mL.


IHC (Immunohistochemistry)

Immunohistochemistry of KLK4 in human kidney tissue with KLK4 antibody at 5 &#956;g/mL.



WB (Western Blot)

Western blot analysis of KLK4 in human kidney tissue lysate with KLK4 antibody at 1 µg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-KLK4 antibody

Kallikreins (KLKs) belong to the serine protease family of proteolytic enzymes having diverse physiological functions (1). Kallikrein 4 (KLK4), also known as prostase or EMSP1 (enamel matrix serine protease 1), contains one peptidase S1 domain and the expression in prostate is regulated by hormone (1,2). Many kallikreins are implicated in carcinogenesis and have potential as novel cancer and other disease biomarkers (3). KLK4 may have additional roles such as functioning as one of the two major enamel proteases identified that process enamel matrix proteins. Defects in KLK4 are the cause of amelogenesis imperfecta hypomaturation type 2A1 (AI2A1) (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	89142741
NCBI GeneID	9622
NCBI Accession #	NP_004908
NCBI GenBank Nucleotide #	NM_004917.3
UniProt Accession #	Q9Y5K2; Q4VB16; Q96RU5; Q9GZL6; Q9UBJ6
Molecular Weight	Predicted: 28 kDa Observed: 31kDa
NCBI Official Full Name	kallikrein-4 preproprotein
NCBI Official Synonym Full Names	kallikrein-related peptidase 4
NCBI Official Symbol	KLK4
NCBI Official Synonym Symbols	ARM1; EMSP; PSTS; AI2A1; EMSP1; KLK-L1; PRSS17; kallikrein
NCBI Protein Information	kallikrein-4; prostase; serine protease 17; kallikrein-like protein 1; androgen-regulated message 1; enamel matrix serine protease 1; enamel matrix serine proteinase 1
UniProt Protein Name	Kallikrein-4
UniProt Gene Name	KLK4
UniProt Synonym Gene Names	EMSP1; PRSS17; PSTS; KLK-L1
UniProt Entry Name	KLK4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

