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Datasheet for ABIN6991891

anti-Kallikrein 4 antibody (AA 80-130)

Overview

Quantity:	0.1 mg
Target:	Kallikrein 4 (KLK4)
Binding Specificity:	AA 80-130
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kallikrein 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLK4 antibody was raised against a 15 amino acid peptide near the center of human KLK4. The immunogen is located within amino acids 80 - 130 of KLK4 .
Isotype:	IgG
Specificity:	KLK4 antibody is human specific. At least three isoforms of KLK4 are known to exist.
Purification:	KLK4 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	Kallikrein 4 (KLK4)
Alternative Name:	KLK4 (KLK4 Products)

Target Details

Background: 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).

Molecular Weight: Predicted: 28 kDa

Observed: 31kDa

Gene ID: 9622

NCBI Accession: [NP_004908](#)

UniProt: [Q9Y5K2](#)

Pathways: [Complement System](#)

Application Details

Application Notes: KLK4 antibody can be used for detection of KLK4 by Western blot at 1 - 2 µg/mL.

Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: KLK4 Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Handling

Storage Comment: KLK4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.