

Datasheet for 600-401-CF3**KLK4 Antibody****Overview**

Description:	Anti-KLK4 (RABBIT) Antibody - 600-401-CF3
Item No.:	600-401-CF3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product 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 hypomaturational type 2A1 (AI2A1) (4).
Synonyms:	KLK4 Antibody , ARM1, EMSP, PSTS, AI2A1, EMSP1, KLK-L1, PRSS17, kallikrein, Kallikrein-4, Enamel matrix serine proteinase 1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KLK4
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-KLK4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the internal region of human KLK4.

Purity/Specificity: Anti-KLK4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. KLK4 antibody is human specific. At least three isoforms of KLK4 are known to exist.

Relevant Links:

- [UniProtKB - Q9Y5K2](#)
- [GeneID - 9622](#)
- [NCBI - NP_004908](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-KLK4 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 27 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IF: User Optimized

IHC: User Optimized

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

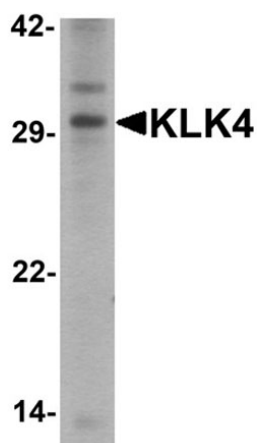
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images

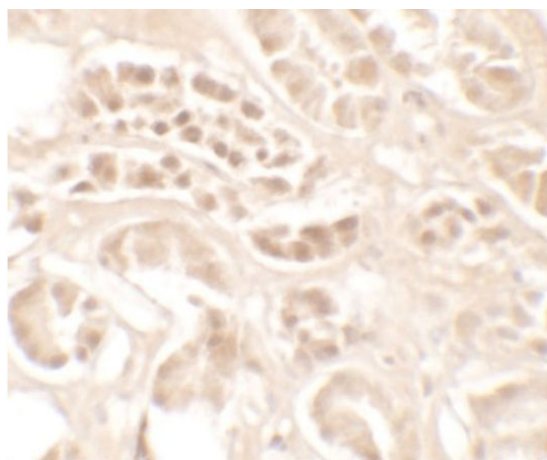


Western Blot

Western blot of KLK4.

Load: human kidney tissue lysate.

Primary Antibody: KLK4 antibody at 1 µg/ml.

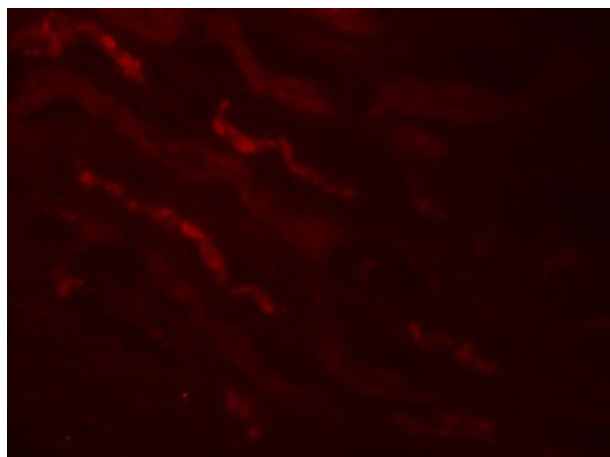


Immunohistochemistry

Immunohistochemistry of KLK4.

Tissue: human kidney tissue.

Primary Antibody: KLK4 antibody at 5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of KLK4.

Tissue: human kidney tissue.

Primary Antibody: KLK4 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.