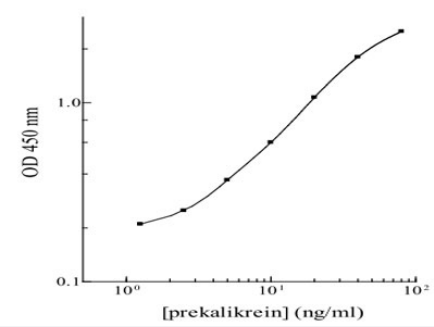
KLKB1 (Human) ELISA Kit

Catalog # KA3830 Size 1 Kit

Applications



The standard curve is for the purpose of demonstration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

Specification

Product Description	KLKB1 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human KLKB1.
Suitable Sample	Cell Culture Supernatant, CSF, Milk, Plasma, Saliva, Serum
Sample Volume	50 uL
Label	Peroxidase-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	1.25 to 80.0 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store components of the kit at 4°C or -20°C as described in the protocol.

Applications

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- Quantification

Gene Info — KLKB1

Entrez GeneID	3818
Gene Name	KLKB1
Gene Alias	KLK3, PPK
Gene Description	kallikrein B, plasma (Fletcher factor) 1
Omim ID	229000
Gene Ontology	Hyperlink
Gene Summary	Plasma prekallikrein is a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. It is synthesized in the liver and secreted into the blood as a single polypeptide chain. Plasma prekallikrein is converted to plasma kallikrein by factor XIIa by the cleavage of an internal Arg-Ile bond. Plasma kallikrein therefore is composed of a heavy chain and a light chain held together by a disulphide bond. The heavy chain originates from the amino-terminal end of the zymogen and contains 4 tandem repeats of 90 or 91 amino acids. Each repeat harbors a novel structure called the apple domain. The heavy chain is required for the surface-dependent pro-coagulant activity of plasma kallikrein. The light chain contains the active site or catalytic domain of the enzyme and is homologous to the trypsin family of serine proteases. Plasma prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients. [provided by RefSeq
Other Designations	Kallikrein, plasma|kallikrein 3, plasma|kallikrein B plasma|kininogenin|plasma kallikrein B1

Publication Reference

- A group of serum proteins as potential diagnostic biomarkers for Yin-deficiency-heat syndrome.

  Chen J, Jiang TT, Yi WJ, Jiao JL, Liu CM, Tu HH, Hu YT, Shi LY, Huang H, Li ZB, Gan L, Li ZJ, Li JC.

  Anatomical Record (Hoboken, N.J. : 2007) 2020 Aug; 303(8):2086.

  Application: Quant, Human, Human serum

Pathway

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- Complement and coagulation cascades

Disease

- Birth Weight
- Breast cancer
- Breast Neoplasms
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Hypertension
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Venous Thrombosis

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