

## ARG82751 Mouse KLKB1 / Plasma Kallikrein ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82751-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82751-002	Standard	2 X 10 ng/vial	4°C
ARG82751-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82751-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82751-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82751-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82751-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82751-008	25X Wash buffer	20 ml	4°C
ARG82751-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82751-010	STOP solution	10 ml (Ready to use)	4°C
ARG82751-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82751 Mouse KLKB1 / Plasma Kallikrein ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse KLKB1 / Plasma Kallikrein in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	KLKB1 / Plasma Kallikrein
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.9%

Inter-Assay CV: 6.8%

#### Alternate Names

PPK; PKKD; Fletcher factor; EC 3.4.21.34; Kininogenin; KLK3; PKK; Plasma kallikrein; Plasma prekallikrein

## Application Instructions

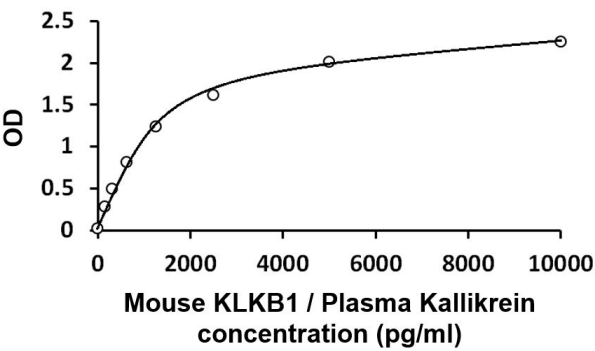
Assay Time ~ 5 hours

## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	KLKB1
Gene Full Name	kallikrein B, plasma (Fletcher factor) 1
Background	<p>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, Jul 2008]</p>
Function	<p>The enzyme cleaves Lys-Arg and Arg-Ser bonds. It activates, in a reciprocal reaction, factor XII after its binding to a negatively charged surface. It also releases bradykinin from HMW kininogen and may also play a role in the renin-angiotensin system by converting prorenin into renin. [UniProt]</p>
Highlight	<p>Related products: <a href="#">KLKB1 antibodies</a>; <a href="#">KLKB1 ELISA Kits</a>; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a></p>
Cellular Localization	Secreted. [UniProt]



ARG82751 Mouse KLKB1 / Plasma Kallikrein ELISA Kit standard curve image

ARG82751 Mouse KLKB1 / Plasma Kallikrein ELISA Kit results of a typical standard run with optical density reading at 450 nm.