

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

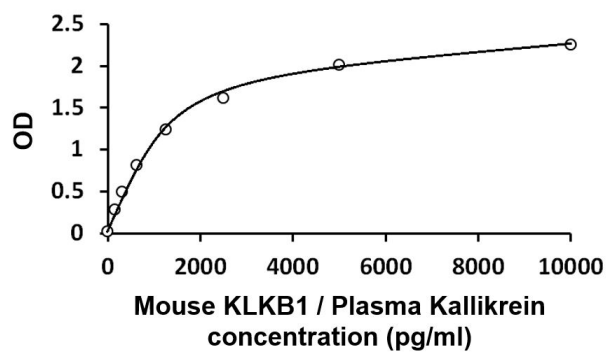
Gene Full Name kallikrein B, plasma (Fletcher factor) 1

Background 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]

Function 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]

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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.