



KLKB1 peptide (DAG-P1870)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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]

Purity > 95 % by SDS-PAGE.

Conjugate Unconjugated

Applications ELISA, WB

Sequence Similarities Belongs to the peptidase S1 family. Plasma kallikrein subfamily. Contains 4 apple domains. Contains 1 peptidase S1 domain.

Format Liquid

Buffer Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

Preservative None

Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Preservative: None Constituents: 0.001% Tween 20, 30mM HEPES, 2mM EDTA, 150mM Sodium chloride, pH 6.75

GENE INFORMATION

Gene Name	KLKB1 kallikrein B, plasma (Fletcher factor) 1 [Homo sapiens (human)]
Official Symbol	KLKB1
Synonyms	KLKB1; kallikrein B, plasma (Fletcher factor) 1; PPK; KLK3; plasma kallikrein; kininogenin; Fletcher factor; plasma prekallikrein; plasma kallikrein heavy chain; plasma kallikrein light chain;
Entrez Gene ID	3818
mRNA Refseq	NM_000892.3
Protein Refseq	NP_000883.2
UniProt ID	P03952
Chromosome Location	4q35
Pathway	Activation of Matrix Metalloproteinases, organism-specific biosystem; Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Formation of Fibrin Clot (Clotting Cascade), organism
Function	protein binding; serine-type endopeptidase activity;