Best Tools for immunology Research

Cleaved-Plasma Kallikrein HC (R390) Cell-Based Colorimetric ELISA Kit

Catalog No :	KA3973C
Reactivity :	Human
Applications :	ELISA
Gene Name :	KLKB1
Human Gene Id :	3818
Human Swiss Prot No :	P03952
Mouse Swiss Prot No :	P26262
Storage Stability :	2-8°C/6 months
Detection Method :	Colorimetric
Background :	catalytic activity:Cleaves selectively Arg-|-Xaa and Lys-|-Xaa bonds, including Lys-|-Arg and Arg-|-Ser bonds in (human) kininogen to release bradykinin.,disease:Defects in KLKB1 are the cause of prekallikrein deficiency (PKK deficiency) [MIM:612423]; also called Fletcher factor deficiency. This disorder is a blood coagulation defect.,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.,similarity:Belongs to the peptidase S1 family.,similarity:Belongs to the peptidase S1 family. Plasma kallikrein subfamily.,similarity:Contains 1 peptidase S1 domain.,similarity:Contains 4 apple domains.,subunit:The zymogen is activated by factor XIIa, which cleaves the molecule into a light chain, which contains the active site, and a heavy chain, which associates with HMW kininogen. These chains are linked by one or more disulfide bonds.,
Function :	kinin cascade, plasma kallikrein-kinin cascade, acute inflammatory response, Factor XII activation, regulation of acute inflammatory response, proteolysis, defense response, inflammatory response, blood coagulation, hemostasis,response to wounding, positive regulation of macromolecule metabolic process, regulation of protein maturation by peptide bond cleavage, positive regulation of protein maturation by peptide bond cleavage, protein processing,regulation of proteolysis, regulation of blood coagulation, negative regulation of blood coagulation, zymogen

activation, plasminogen activation, regulation of response to external stimulus, regulation of cellular protein metabolic process, positive regulation of cellular protein metabolic process, wound healing, fibrinolysis, positive regulation of proteolysis, regulation of inflammatory response, coagulation, regulation of coagulation, negativ

Subcellular Location : Secreted.

Products Images