Best Tools for immunology Research

Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody

Catalog No :	YC0102
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	Plasma Kallikrein HC
Fields :	>>Complement and coagulation cascades
Gene Name :	KLKB1
Protein Name :	Plasma kallikrein
Human Gene Id :	3818
Human Swiss Prot No :	P03952
Mouse Swiss Prot No :	P26262
Immunogen :	The antiserum was produced against synthesized peptide derived from human KLKB1. AA range:341-390
Specificity :	Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody detects endogenous levels of fragment of activated Plasma Kallikrein HC protein resulting from cleavage adjacent to R390.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 45kD

Cell Pathway : Complement and coagulation cascades;

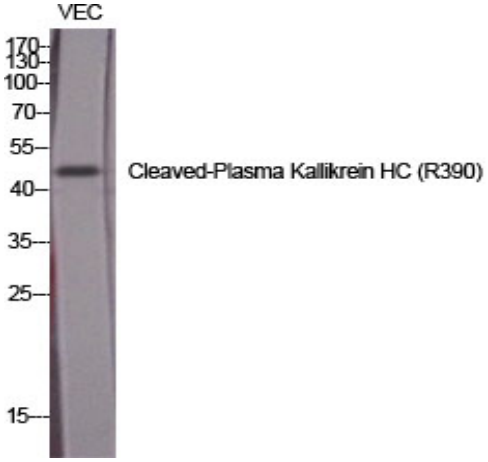
Background : This gene encodes a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. The encoded preproprotein present in plasma as a non-covalent complex with high molecular weight kininogen undergoes proteolytic processing mediated by activated coagulation factor XII to generate a disulfide-linked, heterodimeric serine protease comprised of heavy and light chains. Certain mutations in this gene cause prekallikrein deficiency. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016],

Function : 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 t

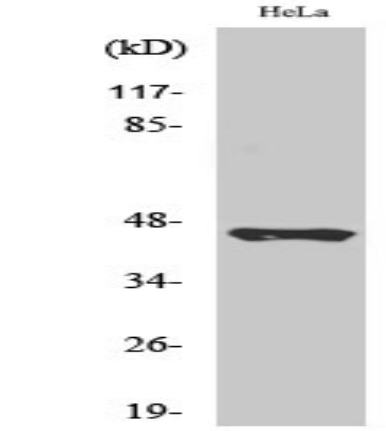
Subcellular Location : Secreted.

Expression : Colon,Liver,Plasma,

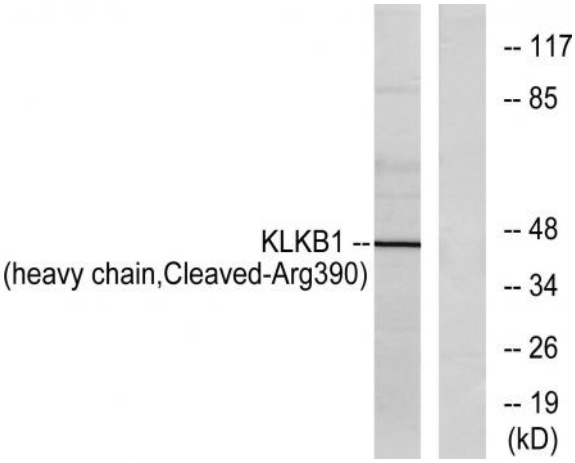
Products Images



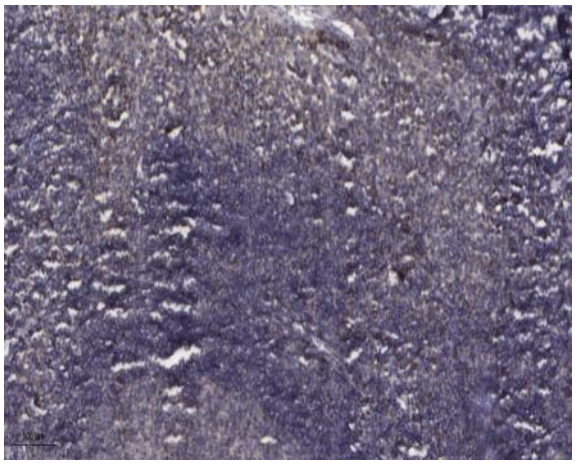
Western Blot analysis of various cells using Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody diluted at 1:1000



Western Blot analysis of HeLa cells using Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody diluted at 1:1000



Western blot analysis of lysates from HeLa cells, using KLKB1 (heavy chain,Cleaved-Arg390) Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).