

## Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody

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

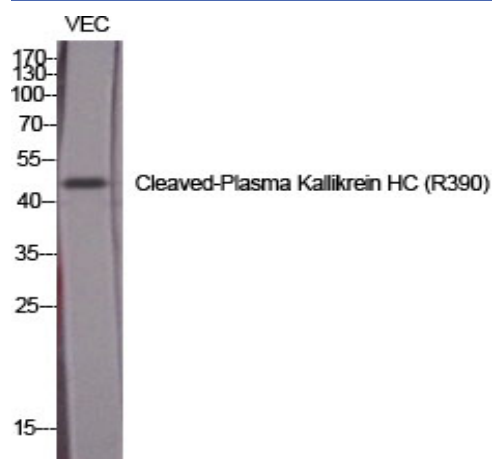
**Background :** This gene encodes a glycoprotein that participates in the surface-dependent activation of blood coagulation, fibrinolysis, kinin generation and inflammation. The encoded preproprotein present in plasma as a non-covalent complex with high molecular weight kininogen undergoes proteolytic 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

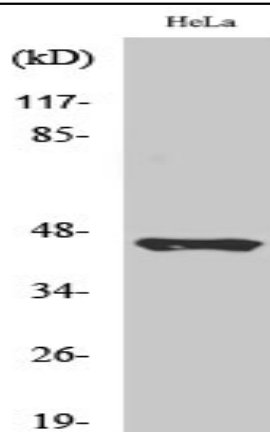
**Subcellular Location :** Secreted.

**Expression :** Colon, Liver, Plasma,

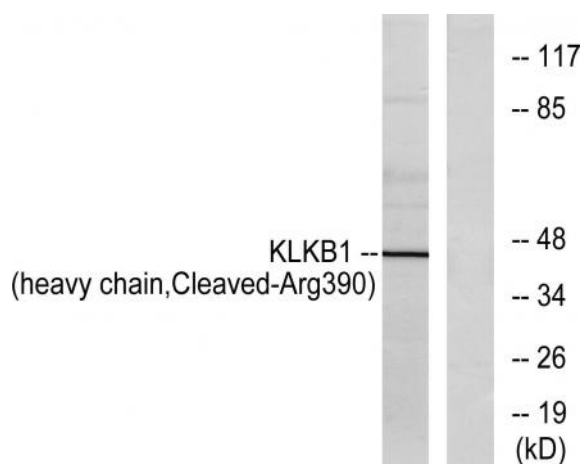
## Products Images



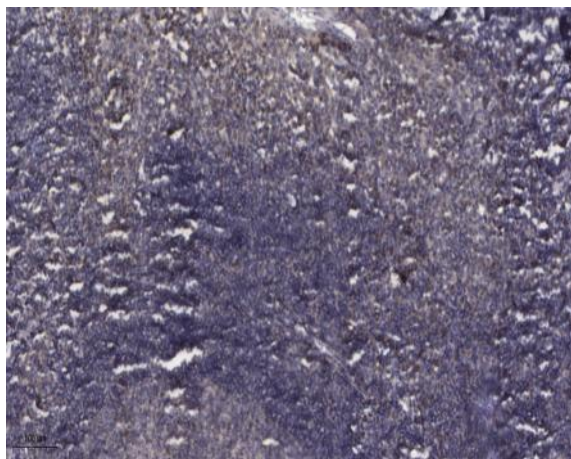
Western Blot analysis of various cells using Cleaved-Plasma Kallikrein HC (R390) Polyclonal Antibody diluted at 1:1000



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, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).