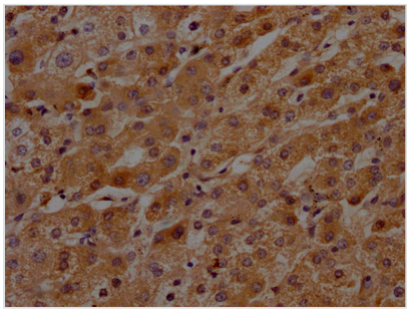
KLKB1 Antibody

Product Code	CSB-RA553053A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P03952
Immunogen	A synthesized peptide derived from human KLKB1
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Cell biology; Signal transduction
Gene Names	KLKB1
Accession NO.	9F6

Image



IHC image of CSB-RA553053A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The KLKB1 codes for plasma kallikrein (PK), a serine protease that circulates in the blood as prekallikrein, an inactive precursor, and participates in the surface-mediated defense system by cleaving both factor XII and high molecular weight kininogen (HK). Genetic analyses have shown that KLKB1 variations have been

linked to blood metabolite levels, hypertension, and coagulation. KLKB1 has been found to play a role in inflammation, vascular function, blood pressure regulation, thrombosis, hemostasis, and metabolism in animal models with KLKB1 deficiency and PK inhibition.

Genes for KLKB1 antibody's heavy and light chains were cloned into plasma vectors, which were subsequently transfected into mammalian cells for expression. The resulting product is the recombinant KLKB1 antibody. This recombinant KLKB1 antibody was subsequently purified from the culture medium of transfected host cell lines through A synthesized peptide derived from human KLKB1. It has verified to detect KLKB1 protein Human in the ELISA, IHC.