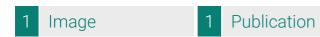
antibodies - online.com







anti-KLKB1 antibody (Middle Region)





	1
Overview	/

Quantity:	100 μL
Target:	KLKB1
Binding Specificity:	Middle Region
Reactivity:	Human, Rat, Dog, Horse, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLKB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KLKB1
Sequence:	VLTAAHCFDG LPLQDVWRIY SGILNLSDIT KDTPFSQIKE IIIHQNYKVS
Predicted Reactivity:	Dog: 86%, Horse: 86%, Human: 100%, Pig: 79%, Rat: 79%
Characteristics:	This is a rabbit polyclonal antibody against KLKB1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	KLKB1
Alternative Name:	KLKB1 (KLKB1 Products)

Background:

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 prekallikrein deficiency causes a prolonged activated partial thromboplastin time in patients. 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.

Alias Symbols: KLK3, PPK

Protein Interaction Partner: TFPI2, HGFAC, SERPINA5, F12, KNG1, IGFBP3, HGF, MST1,

Protein Size: 638

Molecular Weight:	28 kDa
Gene ID:	3818
NCBI Accession:	NM_000892, NP_000883
UniProt:	P03952
Pathways:	Complement System, Brown Fat Cell Differentiation

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 638 AA
Restrictions:	For Research Use only

Handling

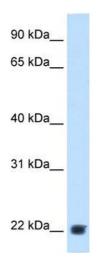
Format: Liquid

Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Publications	
Product cited in:	Spellman, Ahmed, Dubach, Gardiner: "Expression of trisomic proteins in Down syndrome model

systems." in: Gene, Vol. 512, Issue 2, pp. 219-25, (2012) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-KLKB1 Antibody Titration:2.5ug/ml Positive Control: Human Liver