abcam

Product datasheet

Native Human LMW Kininogen protein ab91118

1 Abreviews 2 Images

Description

Product name	Native Human LMW Kininogen protein
Purity	> 95 % SDS-PAGE.
Expression system	Native
Accession	P01042-2
Protein length	Full length protein
Animal free	No
Nature	Native
Species	Human

Specifications

Our Abpromise guarantee covers the use of **ab91118** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Western blot
Form	Lyophilized
Additional notes	Prepared from plasma shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at -20ºC. pH: 5.50 Constituents: 0.082% Sodium acetate, 1.16% Sodium chloride

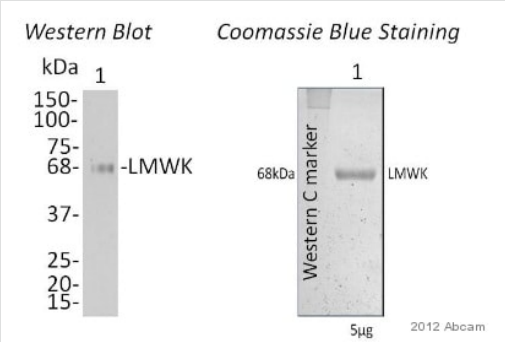
General Info

Function	(1) Kininogens are inhibitors of thiol proteases; (2) HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII; (3) HMW-kininogen inhibits the thrombin- and plasmin-induced aggregation of thrombocytes; (4) the

	active peptide bradykinin that is released from HMW-kininogen shows a variety of physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of hypotension, (4C) natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived relaxing factor action); (5) LMW-kininogen inhibits the aggregation of thrombocytes; (6) LMW-kininogen is in contrast to HMW-kininogen not involved in blood clotting.
Tissue specificity	Secreted in plasma. T-kinin is detected in malignant ovarian, colon and breast carcinomas, but not in benign tumors.
Involvement in disease	Defects in KNG1 are the cause of high molecular weight kininogen deficiency (HMWK deficiency) [MIM:228960]. HMWK deficiency is an autosomal recessive coagulation defect. Patients with HWMK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis.
Sequence similarities	Contains 3 cystatin kininogen-type domains.
Post-translational modifications	Bradykinin is released from kininogen by plasma kallikrein. Hydroxylation of Pro-383 occurs prior to the release of bradykinin. Phosphorylation sites are present in the extracellular medium. N- and O-glycosylated. O-glycosylated with core 1 or possibly core 8 glycans.
Cellular localization	Secreted > extracellular space.

Images

Western blot - Native Human LMW Kininogen protein (ab91118)



Western blot - Native Human LMW Kininogen protein (ab91118)

This image is courtesy of an anonymous Abreview

Lane 1 : Anti-LMW Kininogen antibody (ab79650) at 1/100 dilution

Lane 2 : Coomassie Blue staining

All lanes : Native Human LMW Kininogen protein (ab91118)

Lysates/proteins at 0.01 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit monoclonal at 1/1000 dilution

Developed using the ECL technique.

Exposure time: 20 minutes

Blocked with 5% non-fat milk for 15 hours at 4°C

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