

Datasheet for ABIN7196671

Kallikrein 7 Protein (KLK7) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	10 µg
Target:	Kallikrein 7 (KLK7)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Kallikrein 7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Kallikrein 7/KLK7 Protein (His Tag)(Active)
Sequence:	Met1-Arg249
Characteristics:	A DNA sequence encoding the mouse KLK7 (Q91VE3) (Met1-Arg249) was expressed with a C-terminal polyhistidine tag.
Purity:	> (71.4±26) % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave the fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ (AnaSpec, Cat#27114). The specific activity is >70 pmoles/min/µg. (Activation description: The proenzyme needs to be activated by Thermolysin for an activated form)

Target Details

Target:	Kallikrein 7 (KLK7)
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Target Details

Alternative Name: Kallikrein 7/KLK7 ([KLK7 Products](#))

Background: Kallikrein-7, also known as kallikrein-related peptidase 7, Stratum corneum chymotryptic enzyme, Serine protease 6, KLK7, and PRSS6, is a secreted protein which belongs to the peptidase S1 family and Kallikrein subfamily. Members of the Kallikrein family are involved in various malignancies such as prostate (PSA, KLK2, KLK15), ovarian (KLK4, KLK5, KLK6, KLK8, KLK10), and breast cancer (KLK10, KLK13, KLK14). Kallikrein-7 / KLK7 appears to be increased in ovarian cancer and higher KLK7 expression in ovarian cancer tissue is associated with poorer prognosis of ovarian cancer patients. Kallikrein-7 / KLK7 is abundantly expressed in the skin and is expressed by keratinocytes in the epidermis. Kallikrein-7 / KLK7 is up-regulated in ovarian carcinoma, especially late-stage serous carcinoma, compared with normal ovaries and benign adenomas (at the protein level). It was significantly associated with shorter overall survival (OS) and disease-free survival (DFS). Kallikrein-7 / KLK7 may catalyze the degradation of intercellular cohesive structures in the cornified layer of the skin in the continuous shedding of cells from the skin surface. KLK7 also plays a role in the activation of precursors to inflammatory cytokines.

Synonym: Kallikrein-7; Klk7; Serine protease 6; Stratum corneum chymotryptic enzyme; Thymopsin; kallikrein-related peptidase 7; PRSS6; SCCEkallikrein-7;SCCE

Molecular Weight: 26.5 kDa

UniProt: [Q91VE3](#)

Pathways: [Complement System](#)

Application Details

Restrictions: For Research Use only

Handling

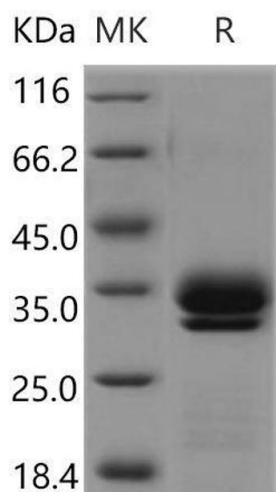
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.