

Product datasheet

Recombinant Mouse Kallikrein 8/KLK8 protein (His tag)  
 ab238388

1 Image

Description

<b>Product name</b>	Recombinant Mouse Kallikrein 8/KLK8 protein (His tag)	
<b>Purity</b>	> 90 % SDS-PAGE.	
<b>Expression system</b>	Escherichia coli	
<b>Accession</b>	<a href="#">Q61955</a>	
<b>Protein length</b>	Full length protein	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Mouse	
<b>Sequence</b>	ILEGRECIPIHSQPWQAALFQGERLICGGVLVGDRAWLT AAHCKKQKYSVR LGDHSLSQSRDQPEQEIQVAQSIQHPCYNNSNPEDHSH DIMLIRLQNSANL GDKVKPVQLANLCPKVGQKCIISGWGTVTSPQENFPN TLNCAEVKIYSQN KCERAYPGKITEGMVCAGSSNGADTCQGDSGGPLVC DGMLQGITSWGSDP CGKPEKPGVYTKICRYTTWIKKTMDNRD	
<b>Predicted molecular weight</b>	29 kDa including tags	
<b>Amino acids</b>	33 to 260	
<b>Tags</b>	His tag N-Terminus	
<b>Additional sequence information</b>	Full length mature chain without the signal peptide.	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab238388** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Kallikrein 8

## Preparation and Storage

### Stability and Storage

Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Constituents: Tris buffer, 50% Glycerol

## General Info

### Function

Serine protease which is capable of degrading a number of proteins such as casein, fibrinogen, kininogen, fibronectin and collagen type IV. Also cleaves L1CAM in response to increased neural activity. Induces neurite outgrowth and fasciculation of cultured hippocampal neurons. Plays a role in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway, regulates Schaffer-collateral long-term potentiation in the hippocampus and is required for memory acquisition and synaptic plasticity. Involved in skin desquamation and keratinocyte proliferation. Plays a role in the secondary phase of pathogenesis following spinal cord injury.

### Tissue specificity

Isoform 1 is predominantly expressed in the pancreas. Isoform 2 is expressed in adult brain and hippocampus. Isoform 1 and isoform 2 are found in fetal brain and placenta. Detected in salivary gland, uterus, thymus, breast, testis and kidney but not in spleen, liver, lung or normal ovarian tissue. Displays an 11.5-fold increase in Alzheimer disease hippocampus compared to controls and is overexpressed in some ovarian carcinomas. Expressed at low levels in normal skin while high levels are found in psoriasis vulgaris, seborrheic keratosis, lichen planus and squamous cell carcinoma skin samples. Expressed in the keratinocytes.

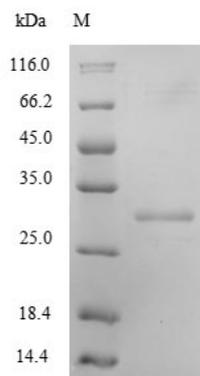
### Sequence similarities

Belongs to the peptidase S1 family. Kallikrein subfamily.  
Contains 1 peptidase S1 domain.

### Cellular localization

Secreted. Cytoplasm. Shows a cytoplasmic distribution in the keratinocytes.

## Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel of ab238388.

SDS-PAGE - Recombinant Mouse Kallikrein 8/CLK8 protein (His tag) (ab238388)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

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