

## Product datasheet

# Recombinant human MELK protein ab102551

[5 Images](#)

### Description

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<b>Product name</b>	Recombinant human MELK protein
<b>Biological activity</b>	The Specific activity of ab102551 was determined to be 200 nmol/min/mg.
<b>Purity</b>	> 85 % Densitometry. Purity was determined to be >85% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>Q14680</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	61 kDa including tags
<b>Amino acids</b>	1 to 340

### Specifications

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Our **Abpromise guarantee** covers the use of **ab102551** 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>	Functional Studies SDS-PAGE Western blot
<b>Form</b>	Liquid
<b>Additional notes</b>	<b><u>ab204885</u></b> (ZIP Kinase peptide substrate) can be utilized as a substrate for assessing kinase activity

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.307% Glutathione, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

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### Function

Phosphorylates ZNF622 and may contribute to its redirection to the nucleus. May be involved in the inhibition of spliceosome assembly during mitosis.

### Tissue specificity

Expressed in placenta, kidney, thymus, testis, ovary and intestine.

### Sequence similarities

Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 KA1 (kinase-associated) domain. Contains 1 protein kinase domain.

### Post-translational modifications

Autophosphorylated. Thr-478 phosphorylation during mitosis promotes interaction with PPP1R8.

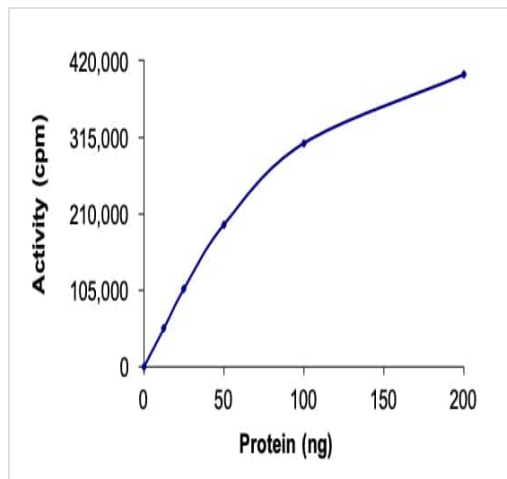
### Cellular localization

Cytoplasm.

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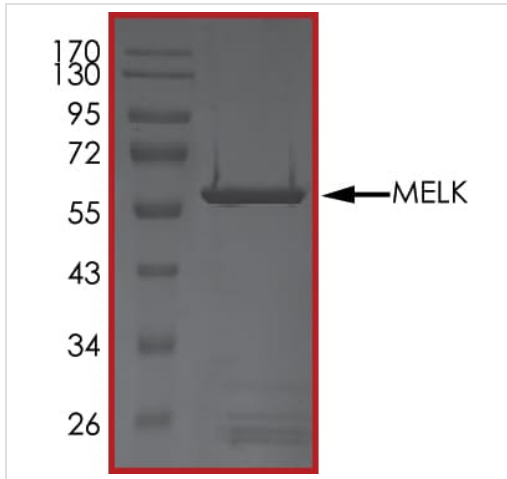
## Images

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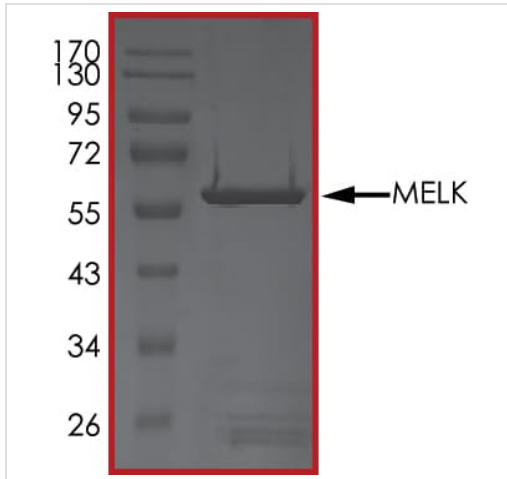
The specific activity of MELK (ab102551) was determined to be 230 nmol/min/mg as per activity assay protocol

Functional Studies - Recombinant human MELK protein (ab102551)



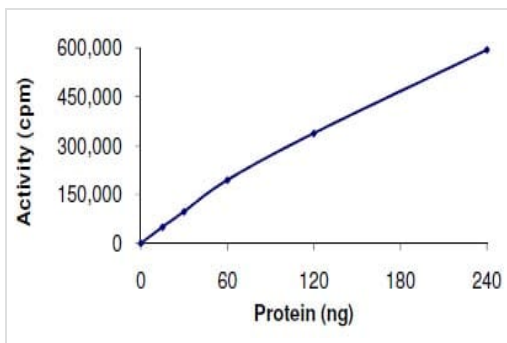
SDS-PAGE - Recombinant human MELK protein (ab102551)

SDS PAGE analysis of ab102551



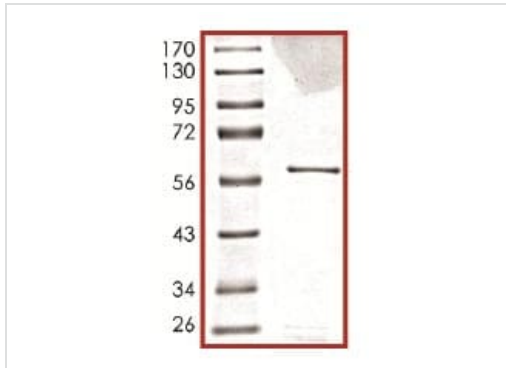
SDS-PAGE - Recombinant human MELK protein (ab102551)

SDS PAGE analysis of ab102551



Functional Studies - Recombinant human MELK protein (ab102551)

The Specific activity of ab102551 was determined to be 200 nmol/min/mg.



SDS-PAGE showing ab102551 at approximately 61kDa.

SDS-PAGE - Recombinant human MELK protein  
(ab102551)

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

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- 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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