

## Product datasheet

# Recombinant human PDK4 protein ab125560

[2 Images](#)

### Description

---

<b>Product name</b>	Recombinant human PDK4 protein
<b>Biological activity</b>	The specific activity of ab125560 is 20 nmol/min/mg.
<b>Purity</b>	> 90 % Densitometry. ab125560 is >90% pure.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<u><a href="#">Q16654</a></u>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	71 kDa
<b>Amino acids</b>	1 to 411
<b>Tags</b>	GST tag N-Terminus

### Specifications

---

Our **Abpromise guarantee** covers the use of **ab125560** 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>	Western blot Functional Studies SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	<b>ab125602</b> (Human Pyruvate Dehydrogenase E1-alpha subunit full length protein) can be utilized as a substrate for assessing Kinase activity

### Preparation and Storage

---

<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: 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride, 0.79%
------------------------------	--

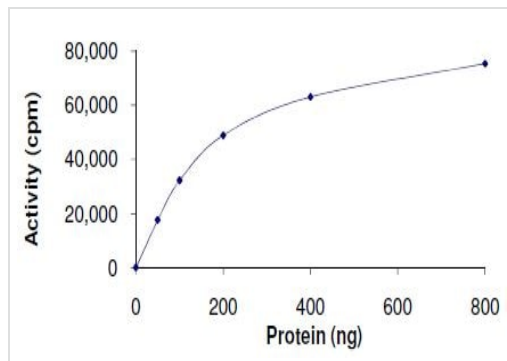
Tris HCl, 0.004% DTT, 0.002% PMSF, 0.31% Glutathione

This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

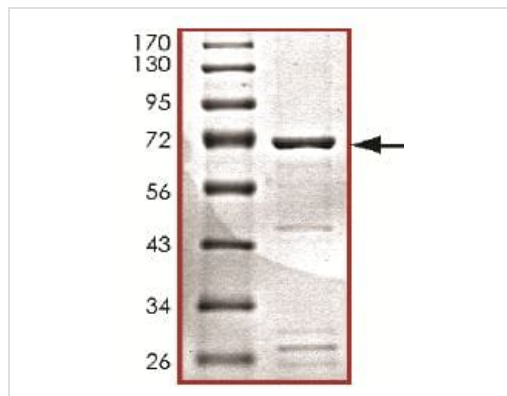
<b>Function</b>	Inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism.
<b>Tissue specificity</b>	Ubiquitous; highest levels of expression in heart and skeletal muscle.
<b>Sequence similarities</b>	Belongs to the PDK/BCKDK protein kinase family. Contains 1 histidine kinase domain.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



The specific activity of ab125560 was determined to be 20 nmol/min/mg.

Functional Studies - Recombinant human PDK4 protein (ab125560)



SDS PAGE analysis of ab125560 (PDK4 protein).

SDS-PAGE - Recombinant human PDK4 protein (ab125560)

**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**

---

- 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.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors