

## Product datasheet

# Recombinant Human PICH protein ab162850

1 Image

### Description

<b>Product name</b>	Recombinant Human PICH protein
<b>Expression system</b>	Wheat germ
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MEKSFATKNEAVQKETLQEGPKQEALQEDPLESFNYVLS            KSTKADIGPNL            DQLKDDEILRHCNPWPIISITNESQNAESNVSIIEIADDLSAS            HSALQDA            QASEAKLEEEPSASSPQYACDFNLFLEDSADNRQNFSS            QSLEHVEKENSL            CGSAPNSRAGFVHSKTCLSWEFSEKDDEPEEVVVKAKIR            SKARRIVSDGE            DEDDSFKDTSSINPFNTSLFQFSSVKQFDASTPKNDISPP            GRFFSSQIPS            SVNKSMNSRRSLASRRSLINMVLHDHVEDMEERLDDSSEA            KGPEDYPEEGV            EESSGEASKYTEEDPSGETLSSSENKSSWLMTSKPSALAQ            ETSLGAPEPLS            GEQLVGSPQDKAAEATNDYETLVKRGKELKECGKIQEAL            NCLVKALDIKS ADPEVMLLTLISLYQLNNN</p>
<b>Amino acids</b>	1 to 419
<b>Tags</b>	GST tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab162850** 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>	ELISA Western blot
<b>Form</b>	Liquid

## Additional notes

This product was previously labelled as ERCC6L.

## Preparation and Storage

### Stability and Storage

Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

pH: 8.00

Constituents: 0.31% Glutathione, 0.79% Tris HCl

## General Info

### Function

DNA helicase that acts as an essential component of the spindle assembly checkpoint. Contributes to the mitotic checkpoint by recruiting MAD2 to kinetochores and monitoring tension on centromeric chromatin. Acts as a tension sensor that associates with catenated DNA which is stretched under tension until it is resolved during anaphase.

### Sequence similarities

Belongs to the SNF2/RAD54 helicase family.

Contains 1 helicase ATP-binding domain.

Contains 1 helicase C-terminal domain.

Contains 2 TPR repeats.

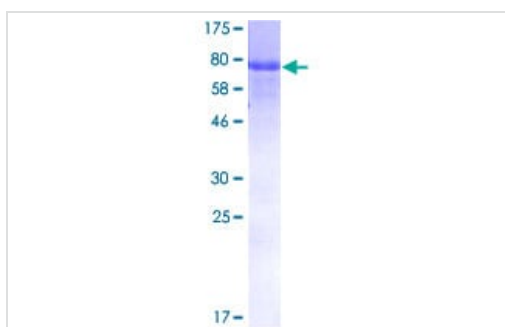
### Post-translational modifications

Phosphorylation by PLK1 prevents the association with chromosome arms and restricts its localization to the kinetochore-centromere region.

### Cellular localization

Chromosome > centromere. Chromosome > centromere > kinetochore. Localizes to kinetochores, inner centromeres and thin threads connecting separating chromosomes even during anaphase. In prometaphase cells, it mostly concentrates in between kinetochores. In metaphase, it localizes to numerous thin threads that stretch between sister kinetochores of the aligned chromosomes and are composed of catenated centromeric DNA. Evolution from inner centromeres to thin threads takes place in response to tension. Resolution of thin threads requires topoisomerase 2-alpha (TOP2A) after anaphase onset.

## Images



SDS-PAGE - Recombinant Human PICH protein  
(ab162850)

ab162850 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**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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- 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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