

## Product datasheet

# Recombinant Human RanGAP1 protein ab131750

1 Image

### Description

<b>Product name</b>	Recombinant Human RanGAP1 protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<b><u>P46060</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	<p>MASEDIAKLAETLAKTQVAGGQLSFKGKSLKLN<del>TAEDAKD</del>            VKEIEDFDS            LEALRLEGNTVGVEAARVIAKALEKKSELKRCHWSDMFT            GRLRTEIPPAL            ISLGEGLITAGAQLVELDLSDNAFGPDGVQGFEALLKSSA            CFTLQELKLN            NCGMGIGGGKILAAALTECHRKSSAQGKPLALKVVFVAGR            N            RLENDGATAL            AEA<del>FRVIGTLEE</del>VHMPQNGINHPGITALAQAFVNP<del>LLRVIN</del>            LNDNTFTE            KGAVAMAETL<del>KTLRQVEV</del>INFGDCLVRSKGAVAIADAIRG            GLPKLKELNL            SFCEIKRDAALAVAEAMADKAELEKLDLNGNTLGEEGCE            QLQEVLEGFNM            AKVLASLSDDDEEEEEEEEEEEEEEEEEEEEEEEEEEE            EEEEEEEEEEPQQ            RGQGEKSATPSRKILDPNTGEPAPVLSSPPPADVSTFLAF            PSPEKLLRLG            PKSSVLIQQTDTSDPEKVVS<del>AF</del>LKVSSVFKDEATVRMA            VQDAVDALMQK            AFN<del>SSSFNS</del>NTFLTRLLVHMGLLKSEDKVKAIANLYGPLM            ALNHMVQQDY            FPKALAPLLLAFVTKPNSALESCSFARHSLLQTL<del>YKV</del></p>
<b>Predicted molecular weight</b>	90 kDa including tags
<b>Amino acids</b>	1 to 587

### Specifications

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Our **Abpromise guarantee** covers the use of **ab131750** 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 SDS-PAGE ELISA
<b>Form</b>	Liquid

## 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: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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## General Info

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<b>Function</b>	GTPase activator for the nuclear Ras-related regulatory protein Ran, converting it to the putatively inactive GDP-bound state.
<b>Tissue specificity</b>	Highly expressed in brain, thymus and testis.
<b>Sequence similarities</b>	Belongs to the RNA1 family. Contains 6 LRR (leucine-rich) repeats.
<b>Post-translational modifications</b>	Phosphorylated occurs before nuclear envelope breakdown and continues throughout mitosis. Phosphorylated by the M-phase kinase cyclin B/Cdk1, in vitro. Differential timing of dephosphorylation occurs during phases of mitosis. The phosphorylated form remains associated with RANBP2/NUP358 and the SUMO E2-conjugating enzyme, UBC9, on nuclear pore complex (NPC) disassembly and during mitosis. Sumoylated with SUMO1. Sumoylation is necessary for targeting to the nuclear envelope (NE), and for association with mitotic spindles and kinetochores during mitosis. Also required for interaction with RANBP2 and is mediated by UBC9.
<b>Cellular localization</b>	Cytoplasm. Nucleus membrane. Chromosome, centromere, kinetochore. Cytoplasm, cytoskeleton, spindle pole. Cytoplasmic during interphase. Targeted to the nuclear rim after sumoylation. During mitosis, associates with mitotic spindles. Association with kinetochores appears soon after nuclear envelope breakdown and persists until late anaphase. Mitotic location also requires sumoylation.

## Images

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12.5% SDS-PAGE analysis of ab131750, stained with Coomassie Blue.

SDS-PAGE - Recombinant Human RanGAP1 protein (ab131750)

**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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