

## Product datasheet

# Recombinant Human RNF4 protein ab134611

1 Image

### Description

|                                   |  |
|-----------------------------------|--|
| <b>Product name</b>               | Recombinant Human RNF4 protein   |
| <b>Purity</b>                     | > 90 % SDS-PAGE.<br>ab134611 was purified using conventional chromatography techniques.  |
| <b>Expression system</b>          | Escherichia coli   |
| <b>Accession</b>                  | <b><u>P78317</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>                   | MGSSHHHHHH SSGLVPRGSH MGSMSTRKRR<br>GGAINSRQAQ KRTREATSTP EISLEAEPLE LVETAGDEV<br>DLTCESLEPV VVDLTHNDSV VVDERRRPR<br>RNARRLPQDH ADSCVVSSDD EELSRDRDVY<br>VTHTPRNAR DEGATGLRPS GTVSCPICMD<br>GYSEIVQNGR LIVSTECGHV FCSQCLRDSL<br>KNANTCPTCR KKHKRYHP MY |
| <b>Predicted molecular weight</b> | 24 kDa including tags  |
| <b>Amino acids</b>                | 1 to 190   |
| <b>Tags</b>                       | His tag N-Terminus   |

### Specifications

Our **Abpromise guarantee** covers the use of **ab134611** 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<br>Mass Spectrometry |
| <b>Mass spectrometry</b> | MALDI-TOF                     |
| <b>Form</b>              | Liquid                        |

### Preparation and Storage

## Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 8.0

Constituents: 0.02% (R\*,R\*)-1,4-Dimercaptobutan-2,3-diol, 0.32% Tris HCl, 30% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

## General Info

### Function

E3 ubiquitin-protein ligase which binds polysumoylated chains covalently attached to proteins and mediates 'Lys-6'-, 'Lys-11'-, 'Lys-48'- and 'Lys-63'-linked polyubiquitination of those substrates and their subsequent targeting to the proteasome for degradation. Regulates the degradation of several proteins including PML and the transcriptional activator PEA3. Involved in chromosome alignment and spindle assembly, it regulates the kinetochore CENPH-CENPI-CENPK complex by targeting polysumoylated CENPI to proteasomal degradation. Regulates the cellular responses to hypoxia and heat shock through degradation of respectively EPAS1 and PARP1. Alternatively, it may also bind DNA/nucleosomes and have a more direct role in the regulation of transcription for instance enhancing basal transcription and steroid receptor-mediated transcriptional activation.

### Tissue specificity

Widely expressed at low levels in many tissues; highly expressed in testis.

### Pathway

Protein modification; protein ubiquitination.

### Sequence similarities

Contains 1 RING-type zinc finger.

### Domain

The RING-type zinc finger domain is required for the ubiquitination of polysumoylated substrates.

### Post-translational modifications

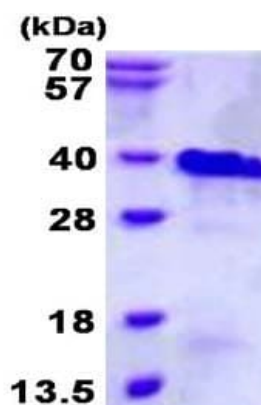
Sumoylated; conjugated by one or two SUMO1 moieties.

Autoubiquitinated.

### Cellular localization

Cytoplasm. Nucleus. Nucleus > PML body. Nucleus > nucleoplasm.

## Images



15% SDS-PAGE analysis of ab134611 (3µg).

SDS-PAGE - Recombinant Human RNF4 protein  
(ab134611)

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

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