

Product datasheet

Human FBXO31 protein fragment ab92209

1 Image

Overview

|                       |                               |
|-----------------------|-------------------------------|
| <b>Product name</b>   | Human FBXO31 protein fragment |
| <b>Protein length</b> | Protein fragment              |

Description

|               |                  |
|---------------|------------------|
| <b>Nature</b> | Recombinant      |
| <b>Source</b> | Escherichia coli |

Amino Acid Sequence

|                    |                                                                                                                                                                                                                                                                          |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>     | Human                                                                                                                                                                                                                                                                    |
| <b>Sequence</b>    | DLIKPGLFKGTYGSHGLEMMLSFHGRRARGTKITGDPNIPAGQQTVEI<br>DLRHRQLPDLLENQRNFNELSRVLEVRERVRQEQQEGGHEAGEGRGRQ<br>GPRESQPSPAQPRAEAPSKGPDGTPGEDGGEPGDAVAAAEQPAQCGQG<br>Q<br>PFVLPVGVSSRNEDYPRTCRMCFYGTGLIAGHGFTSPERTPGVFILF<br>DE<br>DRFGFVWLELKSFSLYSRVQATFRNADAPSPQAFDEMLKNIQSLTS |
| <b>Amino acids</b> | 298 to 539                                                                                                                                                                                                                                                               |

Specifications

Our [Abpromise guarantee](#) covers the use of **ab92209** 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>Form</b>             | Lyophilised                                                                                   |
| <b>Additional notes</b> | Protein Identity confirmed by Mass Spectrometry (MS/MS) (acquired on initial reference batch) |

Preparation and Storage

|                              |                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>Stability and Storage</b> | Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.<br>Preservative: None |
|------------------------------|-------------------------------------------------------------------------------------------------------------|

Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

## Reconstitution

Reconstitute with 138 µl aqua dest.

## General Info

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### Function

Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in G1 arrest following DNA damage. Specifically recognizes phosphorylated cyclin-D1 (CCND1), promoting its ubiquitination and degradation by the proteasome, resulting in G1 arrest. May act as a tumor suppressor.

### Tissue specificity

Highly expressed in brain. Expressed at moderate levels in most tissues, except bone marrow.

### Pathway

Protein modification; protein ubiquitination.

### Sequence similarities

Belongs to the FBXO31 family.

Contains 1 F-box domain.

### Developmental stage

Expression is cell-cycle regulated, and peaks at late G2 to early G1 phase (at protein level).

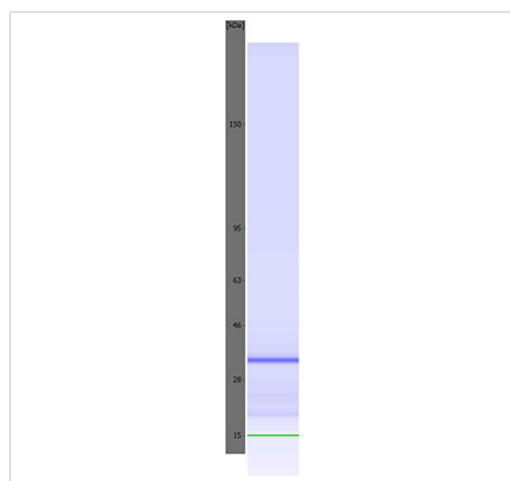
### Post-translational modifications

Phosphorylation at Ser-278 by ATM following gamma-irradiation results in its stabilization.

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## Images

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SDS-PAGE - FBXO31 protein (Tagged-His Tag)  
(ab92209)

The image shows an electrophoretic assay performed using an Agilent 5100 ALP. In some images coloured control bands can be seen at 15 kDa (green) and/or 240 kDa (purple). The protein-specific band is blue.

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