abcam

Product datasheet

Recombinant Human RanBP3 protein ab181938

1 Image

Description

Product name	Recombinant Human RanBP3 protein
Purity	> 95 % SDS-PAGE. ab181938 was purified using conventional chromatography techniques.
Expression system	Escherichia coli
Accession	Q9H6Z4-3
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHHSSGLVPRGSHMGSISSSLENSTNSADASS NKFVFGQNMSE RVLSPPKLNEVSSDANRENAAAESGSESSSQEATPEKE SLAESAAAYTKA TARKCLLEKVEVITGEEAESNVLQMQCKLFVFDKTSQSW VERGRGLLRLN DMASTDDGTLQSRLVMRTQGSLRLILNTKLWAQMQIDKAS EKSIRITAMD TEDQGVKVFLISASSKDTGQLYAALHHRILALRS
Predicted molecular weight	26 kDa including tags
Amino acids	235 to 445
Tags	His tag N-Terminus
Additional sequence information	NP_015559

Specifications

Our **Abpromise guarantee** covers the use of **ab181938** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Mass Spectrometry SDS-PAGE
Mass spectrometry	MALDI-TOF
Form	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: 8.00
Constituents: 10% Glycerol (glycerin, glycerine), 0.88% Sodium chloride, 0.32% Tris HCl

General Info

Function

Acts as a cofactor for XPO1/CRM1-mediated nuclear export, perhaps as export complex scaffolding protein. Bound to XPO1/CRM1, stabilizes the XPO1/CRM1-cargo interaction. In the absence of Ran-bound GTP prevents binding of XPO1/CRM1 to the nuclear pore complex. Binds to CHC1/RCC1 and increases the guanine nucleotide exchange activity of CHC1/RCC1. Recruits XPO1/CRM1 to CHC1/RCC1 in a Ran-dependent manner. Negative regulator of TGF-beta signaling through interaction with the R-SMAD proteins, SMAD2 and SMAD3, and mediating their nuclear export.

Tissue specificity

Widely expressed with high levels in testis and heart.

Sequence similarities

Contains 1 RanBD1 domain.

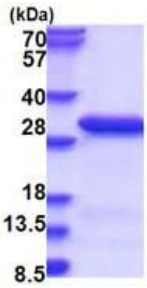
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.

Cellular localization

Cytoplasm. Nucleus.

Images



SDS-PAGE - Recombinant Human RanBP3 protein (ab181938)

15% SDS-PAGE analysis of 3 µg ab181938 .

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