abcam

Product datasheet

Recombinant Human Ran (mutated E70A) protein ab90203

1 References

Description

Product name	Recombinant Human Ran (mutated E70A) protein
Biological activity	Protein preparation is 85% GDP-loaded, measured by HPLC.
Purity	> 95 % SDS-PAGE.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Modifications	mutated E70A

Specifications

Our **Abpromise guarantee** covers the use of **ab90203** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid
Additional notes	The mutation E70A results in inhibition of the guanine exchange reaction mediated by RCC1, the guanine nucleotide exchange factor (GEF) for Ran. Protein preparation is 85% GDP-loaded, measured by HPLC.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.40 Constituents: 0.0154% DTE (1,4-Dithioerythritol), 0.42% Potassium phosphate, 0.0475% Magnesium chloride

General Info

Function	GTP-binding protein involved in nucleocytoplasmic transport. Required for the import of protein into the nucleus and also for RNA export. Involved in chromatin condensation and control of cell cycle (By similarity). The complex with BIRC5/ survivin plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. Enhances AR-mediated transactivation. Transactivation decreases as the poly-Gln length within AR increases.
Tissue specificity	Expressed in a variety of tissues.
Sequence similarities	Belongs to the small GTPase superfamily. Ran family.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Nucleus. Cytoplasm. Melanosome. Becomes dispersed throughout the cytoplasm during mitosis. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Our Abpromise to you: Quality guaranteed and expert technical support

- 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.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors