

Recombinant human RANBP1 protein

Catalog Number: ATGP1466

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-201aa

UniProt No.

P43487

NCBI Accession No.

NP_002873

Alternative Names

RAN binding protein 1, HTF9A

PRODUCT SPECIFICATION

Molecular Weight

25.8 kDa (225aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

RAN binding protein 1, also known as RANBP1, belongs to a family of proteins that bind Ran GTPase which is essential for mRNA processing, nuclear transport, cell cycle control, mitotic spindle assembly, and postmitotic nuclear re-assembly and nuclear architecture maintenance. RANBP1 does not activate GTPase activity of RAN but does markedly increase GTP hydrolysis by the RanGTPase-activating protein (RanGAP1). Also, RANBP1 acts as a negative regulator of RCC1 by inhibiting RCC1-stimulated guanine nucleotide release from RAN.

Recombinant human RANBP1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by

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using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSHEMAAKD THEDHDTSTE NTDESNHDPQ FEPIVSLPEQ EIKTLEEDEE ELFKMRAKLF
RFASENDLPE WKERGTGDVK LLKHKEKGAI RLLMRRDKTL KICANHYITP MMELKPNAGS DRAWVWNTHA DFADECCKPE
LLAIRFLNAE NAQKFCKFE ECRKEIEERE KKAGSGKNDH AEKVAEKLEA LSVKEETKED AEEKQ

General References

Hayashi N., et al. (1995) Mol Gen Genet. 247(6):661-9.
Ren M., et al. (1995) Mol Cell Biol. 15(4):2177-24.

DATA

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

