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# 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**

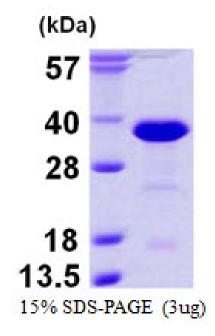
MGSSHHHHHH SSGLVPRGSH MGSHMAAAKD THEDHDTSTE NTDESNHDPQ FEPIVSLPEQ EIKTLEEDEE ELFKMRAKLF RFASENDLPE WKERGTGDVK LLKHKEKGAI RLLMRRDKTL KICANHYITP MMELKPNAGS DRAWVWNTHA DFADECPKPE LLAIRFLNAE NAQKFKTKFE ECRKEIEERE KKAGSGKNDH AEKVAEKLEA LSVKEETKED AEEKQ

#### **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**





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

