

## RANBP1 Human

**Description:**RANBP1 Human Recombinant produced in E. coli is a single polypeptide chain containing 225 amino acids (1-201) and having a molecular mass of 25.8kDa.RANBP1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Catalog #:**PRPS-1071

**Synonyms:**RAN binding protein 1, HTF9A, ran-specific GTPase-activating protein, RanBP1.

For research use only.

**Source:**E.coli.

**Physical Appearance:**Sterile Filtered colorless solution.

**Amino Acid Sequence:**MGSSHHHHHH SSGLVPRGSH MGSHEMAAKD THEDHDTSTE  
NTDESNHDPQ FEPIVSLPEQ EIKTLEEDEE ELFKMRAKLF RFASENDLPE WKERGTGDVK  
LLKHKEKGAIRLLMRRDKTL KICANHITP MMELKPNAGS DRAWVWNTHA DFADECPKPE  
LLAIRFLNAE NAQKFKTKFE ECRKEIEERE KKAGSGKNDH AEKVAEKLEA LSVKEETKED  
AEEKQ

**Purity:**Greater than 95% as determined by SDS-PAGE.

### Formulation:

The RANBP1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 10% glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

RANBP1 is a member of a family of proteins which bind Ran GTPase. Ran GTPase is vital for cell cycle control, mRNA processing, nuclear transport, mitotic spindle assembly, and postmitotic nuclear re-assembly and nuclear architecture maintenance. RANBP1 does not stimulate GTPase activity of RAN however RANBP1 does distinctly raise GTP hydrolysis by the RanGTPase-activating protein (RanGAP1). Additionally, RANBP1 operates as a negative regulator of RCC1 by inhibiting RCC1-stimulated guanine nucleotide release from RAN.

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