

# Recombinant Full Length Human RANBP1 Protein

**Cat. No.** RANBP1-426HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human RanBP1 protein with an N terminal proprietary tag; predicted mwt: 49.11 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 210 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Ran/TC4-binding protein, RanBP1, interacts specifically with GTP-charged RAN. RANBP1 encodes a 23-kD protein that binds to RAN complexed with GTP but not GDP. RANBP1 does not activate GTPase activity of RAN but does markedly increase GTP hydrolysis by the RanGTPase-activating protein (RanGAP1). The RANBP1 cDNA encodes a 201-amino acid protein that is 92% similar to its mouse homolog. In both mammalian cells and in yeast, RANBP1 acts as a negative regulator of RCC1 by inhibiting RCC1-stimulated guanine nucleotide release from RAN. |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 49.110kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MAAAKDTHEDHDTSTENTDESNHDPQFEPVSLPEQEIKT LEEDEEELFKMRAKLFR<br>FASENDLPEWKERGTGDVKKLLKH KEKGAIRLLMRRDKTLKICANH YITPM MELKPNA<br>GSDRAW VWNTHADFADECPKPELLAIRFLNAENAQKF KTKFEECRK EIEEREKKA<br>GSGKNDHAEKVAEKLEALS VK EETKEDAE EK Q                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | Proprietary Purification                                                                           |
| <b>Storage</b>        | Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles. |
| <b>Storage Buffer</b> | pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.                                          |

## GENE INFORMATION

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RANBP1 RAN binding protein 1 [ Homo sapiens ]                                |
| <b>Official Symbol</b> | RANBP1                                                                       |
| <b>Synonyms</b>        | RANBP1; RAN binding protein 1; ran-specific GTPase-activating protein; HTF9A |
| <b>Gene ID</b>         | 5902                                                                         |
| <b>mRNA Refseq</b>     | NM_002882                                                                    |
| <b>Protein Refseq</b>  | NP_002873                                                                    |
| <b>MIM</b>             | 601180                                                                       |
| <b>UniProt ID</b>      | P43487                                                                       |

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