

## Recombinant Human RPS15

**Cat. No.** RPS15-29467TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human RPS15 with N terminal proprietary tag; Predicted MWt 42.06 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 145 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | <p>Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S19P family of ribosomal proteins. It is located in the cytoplasm. This gene has been found to be activated in various tumors, such as insulinomas, esophageal cancers, and colon cancers. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.</p> |
| <b>Molecular Weight</b> | 42.060kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                    |
| <b>Sequences of amino acids</b> | MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSAR QRRRLNRGLRRKQH<br>SLLKRLRKAKKEAPPM EKPEVVKTHL RDMILPEMVGSMVGVYNGKTFNQVEIKPE<br>MIGHYLGEFS ITYKPVKHGRPGIGATHSSRFIPLK |
| <b>Sequence Similarities</b>    | Belongs to the ribosomal protein S19P family.                                                                                                                |
| <b>GENE INFORMATION</b>         |                                                                                                                                                              |
| <b>Gene Name</b>                | RPS15 ribosomal protein S15 [ Homo sapiens ]                                                                                                                 |
| <b>Official Symbol</b>          | RPS15                                                                                                                                                        |
| <b>Synonyms</b>                 | RPS15; ribosomal protein S15; 40S ribosomal protein S15; homolog of rat insulinoma; insulinoma protein; MGC111130; RIG; S15;                                 |
| <b>Gene ID</b>                  | 6209                                                                                                                                                         |
| <b>mRNA Refseq</b>              | NM_001018                                                                                                                                                    |
| <b>Protein Refseq</b>           | NP_001009                                                                                                                                                    |
| <b>MIM</b>                      | 180535                                                                                                                                                       |
| <b>Uniprot ID</b>               | P62841                                                                                                                                                       |
| <b>Chromosome Location</b>      | 19p13.3                                                                                                                                                      |

**Pathway**

Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem;

**Function**

DNA binding; RNA binding; structural constituent of ribosome;

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