

# Recombinant Human TUBG1

**Cat. No.** TUBG1-31632TH    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b>    | Recombinant full length Human TUBG1 with a proprietary tag.                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>              | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>       | 452 amino acids                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>         | This gene encodes a member of the tubulin superfamily. The encoded protein localizes to the centrosome where it binds to microtubules as part of a complex referred to as the gamma-tubulin ring complex. The protein mediates microtubule nucleation and is required for microtubule formation and progression of the cell cycle. A pseudogene of this gene is found on chromosome 7. |
| <b>Molecular Weight</b>    | 75.720kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                            |
| <b>Biological activity</b> | useful for Antibody Production and Protein Array                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>                | Liquid                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>              | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>      | pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced.                                                                                                                                                                                                                                                                                                    |

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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> | MPREIITLQLGQCGNQIGFEFWKQLCAEHGISPEGIVEEFATEGTDRKDVFFYQADD<br>EHYIPRAVLLDLEPRVIHSILNSPYAKLYNPENIYLSEHGGGAGNNWASGFSQGEKIH<br>EDIFDIIDREADGSDSLEGFVLCHSIAGGTGSGGLGSYLLERLNDRYPKKLVQTYSVFP<br>NQDEMSDVVVQPYNSLLTLKRLTQNADCVVLDNTALNRIATDRLHIQNPSFSQINQ<br>LVSTIMSASTTTLRYPGYMNNDLIGLIASLIPTPRLHFLMTGYTPLTTDQSVASVRKTT<br>VLDVMRRLQLPKNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLAN<br>FIPWGPASIQVALSRKSPYLPSAHRVSGLMANHTSISSLFERTCRQYDKLRKREAF<br>LEQFRKEDMFKDNFDEMDTSREIVQQLIDEYHAATRPDYISWGTQE |
| <b>Sequence Similarities</b>    | Belongs to the tubulin family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## GENE INFORMATION

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|------------------------|--------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TUBG1 tubulin, gamma 1 [ Homo sapiens ]                                                    |
| <b>Official Symbol</b> | TUBG1                                                                                      |
| <b>Synonyms</b>        | TUBG1; tubulin, gamma 1; TUBG, tubulin, gamma polypeptide; tubulin gamma-1 chain; TUBGCP1; |
| <b>Gene ID</b>         | 7283                                                                                       |
| <b>mRNA Refseq</b>     | NM_001070                                                                                  |
| <b>Protein Refseq</b>  | NP_001061                                                                                  |
| <b>MIM</b>             | 191135                                                                                     |

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| <b>Uniprot ID</b>          | P23258                                                                                                                                                                                                                                                                                                                                      |
| <b>Chromosome Location</b> | 17q21.31                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G2/M Transition, organism-specific biosystem; Loss of Nlp from mitotic centrosomes, organism-specific biosystem; Loss of proteins required for interphase microtubule organization??from the centrosome, organism-specific biosystem; |
| <b>Function</b>            | GTP binding; GTPase activity; nucleotide binding; protein binding; structural constituent of cytoskeleton;                                                                                                                                                                                                                                  |