

# Recombinant Rat TPBG Protein (32-361 aa), His-SUMO-tagged

**Cat. No.** TPBG-1765R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat TPBG Protein (32-361 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                                                                                   |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 32-361 aa                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | May function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization.                                                                                                                                                                                                       |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 51.8 kDa                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | SAPSSSLPSSSTSPAAFLASGSAQPPPAERCPAACECEAARTVKCVNRNLLEVPA<br>DLPPYVRNLFLTGNQMTVLPAGAFARQPPLADLAVLNLSGNHLKEVGAGAFEHLPG<br>LRRDLSHNPLTNLSAFTFAGSNVSVSTPSPLLELILNHIVPPEDQRQNGSFEGMVA<br>EGMVAAALRSGALRGLHLELASNHFLYLPRLDQLPSLKHLDLRNNSLVSLTYA<br>SFRNLTHLESLHLEDNALKVLHNSTLAEWQGLAHVRVFLDNNPWVCD CYMADMVS<br>WLKETEVVPDKARLTCAFPEKMRNRGLDLTSSDLDCDATLPQSLQTS |
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                        |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products.                                                                                                                                                                                                                                  |

## GENE INFORMATION

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Gene Name</b>       | Tpbg trophoblast glycoprotein [ <i>Rattus norvegicus</i> ] |
| <b>Official Symbol</b> | TPBG                                                       |
| <b>Synonyms</b>        | TPBG; trophoblast glycoprotein; 5T4; MGC93332;             |
| <b>Gene ID</b>         | 83684                                                      |
| <b>mRNA Refseq</b>     | NM_031807                                                  |
| <b>Protein Refseq</b>  | NP_113995                                                  |
| <b>UniProt ID</b>      | Q5PQV5                                                     |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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