

Recombinant Protein Technical Manual Recombinant Human TPBG/5T4 Protein (His Tag)

RPES4169

Product Data:

Product SKU: RPES4169 **Size:** 10μg

Species: Human Cells

Uniprot: Q13641

Protein Information:

Molecular Mass: 36.1 kDa

AP Molecular Mass: 55-80 kDa

Tag: C-His

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room

temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: 5T4 Protein, Human;5T4AG Protein, Human;M6P1 Protein, Human;WAIF1 Protein,

Human

Immunogen Information:

Sequence: Ser32-Ser355

Background:

Trophoblast glycoprotein, also known as TPBG and 5T4, it belongs to the LRR family of proteins. The Cterminus of LRR N-terminal cap (LRRNT) and LRR 1 are essential for the inhibition of the Wnt signaling pathway. TPBG may function as an inhibitor of Wnt/beta-catenin signaling by indirectly interacting with LRP6 and blocking Wnt3a-dependent LRP6 internalization. It expressed by all types of trophoblasts as early as 9 weeks of development. In adult tissues, the expression is limited to a few epithelial cell types but is found on a variety of carcinoma.