Recombinant Protein Technical Manual

Recombinant Human TSPAN1 Protein (aa 110-211, Fc Tag)

RPES1379

Product Data:

Product SKU: RPES1379

Size: 20µg

Species: Human

Expression host: HEK293 Cells

Uniprot: O60635

Protein Information:

Molecular Mass: 39.1 kDa

AP Molecular Mass: 43-53 kDa

Tag: N-Fc

Bio-activity:

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.

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

Formulation: Lyophilized from sterile PBS, pH 7.4

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

Application:

Synonyms: NET1;TM4C;TM4SF;TSPAN1

Immunogen Information:

Sequence: Tyr110-Asn211

Background:

TSPAN1 belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins have four hydrophobic domains, intracellular N- and C-termini and two extracellular domains. Tetraspanins act as scaffolding proteins, anchoring multiple proteins to one area of the cell membrane. They also mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TSPAN1 interacts with human thiamine transporter (hTHTR). HTHTR contributes to intestinal thiamine uptake, and its function is regulated at both the transcriptional and posttranscriptional levels. TSPAN1 and hTHTR colocalize in human intestinal epithelial HuTu-80 cells. Coexpression of TSPAN1 in these cells led to a significant decrease in the rate of degradation of hTHTR compared with cells expressing the hTHTR alone; in fact the half-life of the TSPAN1 protein was twice longer in the former cell type compared with the latter cell type.