

Recombinant Protein Technical Manual Recombinant Mouse TGFBR2 Protein (Fc Tag)

RPES3468

Product Data:

Product SKU: RPES3468 **Size:** 10μg

Species: Mouse Expression host: Human Cells

Uniprot: Q62312-2

Protein Information:

Molecular Mass: 42.3 kDa

AP Molecular Mass: 55-65 kDa

Tag: C-Fc

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: $< 1.0 \text{ EU per } \mu\text{g}$ 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°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, pH7.4.

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

Application:

Synonyms: TGF-beta receptor type-2; TGFR-2; TGF-beta type II receptor; Transforming growth

factor-beta receptor type II; TGF-beta receptor type II; TbetaR-II; Tgfbr2

Immunogen Information:

Sequence: Ile24-Asp159

Background:

Transforming growth factor- β (TGF- β) is an essential regulator in the processes of development, cell proliferation, and extracellular matrix deposition. TGF- β regulates cellular processes by binding to three high-affinity cell surface receptors: TGF- β receptor type I (TGF- β -RI), TGF- β receptor type II (TGF- β -RII). TGF- β RII is consists of a C-terminal protein kinase domain and an N-terminal ectodomain and belongs to transforming growth factor-beta (TGF- β) receptor subfamily. TGF- β RII has a protein kinase domain which can form a heterodimeric complex with another receptor protein and bind TGF-beta. This receptor/ligand complex phosphorylates protein will enter the nucleus and regulate the transcription of a subset of genes related to cell proliferation.