Recombinant Protein Technical Manual

Recombinant Mouse CD90/THY Protein (His Tag)

RPES2057

Product Data:

Product SKU: RPES2057

Size: 20µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: NP_033408.1

Protein Information:

Molecular Mass: 14.2 kDa

AP Molecular Mass: 20-27 kDa

Tag: C-His

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg of the protein 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: CD90;T25;Thy;Thy.2;Thy1.1;Thy1.2

Immunogen Information:

Sequence: Met 1-Cys 131

Background:

Thy membrane glycoprotein, also known as Thy antigen, CD90 and THY1, is a cell membrane protein which contains 1 Ig-like V-type (immunoglobulin-like) domain. It is a glycophosphatidylinositol-linked glycoprotein expressed on the surface of neurons, thymocytes, subsets of fibroblasts, endothelial cells, mesangial cells and some hematopoietic cells. It has been identified on a variety of stem cells and at varying levels in non-lymphoid tissues such as on fibroblasts, brain cells, and activated endothelial cells. Thy is evolutionarily conserved, developmentally regulated, and often has dramatic effects on cell phenotype. Thy is a 25-37 kDa glycosylphosphatidylinositol (GPI)-anchored protein involved in T cell activation, neurite outgrowth, apoptosis, tumor suppression, wound healing, and fibrosis. To mediate these diverse effects, Thy participates in multiple signaling cascades. Thy is an important regulator of cell-cell and cell-matrix interactions, with important roles in nerve regeneration, metastasis, inflammation, and fibrosis.