

# Recombinant Human Thy1 Protein

**Cat. No.** THY1-542H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Human THY1 (NP\_006279.2) (Met1-Cys130) was expressed with five amino acids (DDDDK) at the C-terminus.

**Species**                      Human

**Source**                        HEK293

**ProteinLength**              Met1-Cys130

**Description**                Thy-1 membrane glycoprotein, also known as Thy-1 antigen, CD90 and THY1, is a cell membrane protein which contains 1 Ig-like V-type (immunoglobulin-like) domain. It is a glycosylphosphatidylinositol-linked glycoprotein expressed on the surface of neurons, thymic dendritic cells, 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-1 is evolutionarily conserved, developmentally regulated, and often has dramatic effects on cell phenotype. Thy-1 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-1 participates in multiple signaling cascades. Thy-1 is an important regulator of cell-cell and cell-matrix interactions, with important roles in nerve regeneration, metastasis, inflammation, and fibrosis.

**Predicted N Terminal**      Gln 20

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant human THY1 consists of 117 amino acids and predicts a molecular mass of 13.2 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	THY1 Thy-1 cell surface antigen [ Homo sapiens ]
<b>Official Symbol</b>	THY1
<b>Synonyms</b>	THY1; Thy-1 cell surface antigen; thy-1 membrane glycoprotein; CD90; CDw90; thy-1 antigen; Thy-1 T-cell antigen; FLJ33325;
<b>Gene ID</b>	7070
<b>mRNA Refseq</b>	NM_006288
<b>Protein Refseq</b>	NP_006279

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<b>MIM</b>	188230
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<b>UniProt ID</b>	P04216
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