

Recombinant human Thy1

Catalog No: #AG0062

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Description

Product Name	Recombinant human Thy1
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Gln20-Gly132
Target Name	Thy1
Other Names	CD90 antigen; CD90; CDw90; FLJ33325; Thy-1 antigen; Thy-1 cell surface antigen; thy-1 membrane glycoprotein; Thy-1 T-cell antigen; Thy1
Accession No.	Uniprot:P04216Gene ID:7070
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GeneID	7070
Target Species	human
Calculated MW	12.8 KDa
Tag Info	C-His-Tag
Formulation	0.22 µm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

Background

CD90, also known as Thy1, is an approximately 25-35 kDa glycoprotein that mediates cellular adhesion and exerts wide ranging effects in different tissues (1, 2). Mature mouse CD90 contains one immunoglobulin-like domain followed by a GPI anchor (3-5). CD90 is expressed on hematopoietic progenitor cells, neurons, and activated vascular endothelial cells (6-8). Its species-specific expression in lymphoid cells allows its use as a thymocyte and pan T cell marker in mouse but not in human (1). CD90 can form dimers and higher order multimers (9). It binds to heparin, the proteoglycan Syndecan-4, and Integrins alpha M beta 2, alpha V beta 3, and alpha V beta 5 (8, 10-13). Through these interactions, CD90 inhibits neurite outgrowth (7), promotes astrocyte adhesion (10), mediates the adhesion and extravasation of leukocytes and melanoma cells (8, 12), supports the Thrombospondin-1 induced disassembly of fibroblast focal adhesions (14), and inhibits the activation of latent TGF-beta 1, myofibroblast differentiation, and lung fibrosis (13)

Note: This product is for in vitro research use only