

RPCB0086

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## Product Information

<b>Product SKU:</b>	RPCB0086	<b>Gene ID:</b>	7070	<b>Size:</b>	50µg
<b>Tag:</b>	N-His	<b>Reactivity:</b>	Human		

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## Additional Information

<b>Expression Host:</b>	-	<b>Swissprot:</b>	P04216
<b>Purity:</b>	> 95% by SDS-PAGE.		

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## Protein Information

**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. CD90 is expressed on hematopoietic progenitor cells, neurons, and activated vascular endothelial cells. Its species-specific expression in lymphoid cells allows its use as a thymocyte and pan T cell marker in mouse but not in human. CD90 can form dimers and higher order multimers. It binds to heparin, the proteoglycan Syndecan-4, and Integrins alpha M beta 2, alpha V beta 3, and alpha V beta 5. Through these interactions, CD90 inhibits neurite outgrowth, promotes astrocyte adhesion, mediates the adhesion and extravasation of leukocytes and melanoma cells, supports the Thrombospondin-1 induced disassembly of fibroblast focal adhesions, and inhibits the activation of latent TGF-beta 1, myofibroblast differentiation, and lung fibrosis. Human Thy-1 shares 63% and 66% amino acids similarity with mouse and rat homolog.

**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human Thy-1/CD90 Protein, tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

**Endotoxin:** < 0.01 EU/µg of the protein by LAL method.

**Formulation:** Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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**Storage:**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.