

## Product datasheet for **AM32319PU-N**

### CD90 (THY1) Mouse Monoclonal Antibody [Clone ID: AF-9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AF-9
Applications:	ELISA, IHC
Recommended Dilution:	ELISA. Flow Cytometry. Immunohistochemistry on frozen sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	T cell lymphoma cells.
Specificity:	This antibody reacts to CD90.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	Thy-1 cell surface antigen
Database Link:	<a href="#">Entrez Gene 7070 Human P04216</a>



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**Background:**

CD90 is also known as Thy-1 antigen and a member of the immunoglobulin superfamily. It may contribute to inhibition of proliferation/differentiation of hematopoietic stem cells and neuron memory formation in the CNS. It consists of a single Ig domain (112 amino acids; 25-35 kD) inserted into the cell membrane via a GPI anchor. Expressed by hematopoietic stem cells and neurons in all species studied. Its highly expressed in connective tissue and various fibroblast and stromal cell lines, expressed on all thymocytes and peripheral T cells in mice, but in humans expressed only on small % fetal thymocytes, 10-40% of CD34+ cells in bone marrow, and <1% of CD3+CD4+ lymphocytes in peripheral circulation. It is also expressed by human lymph node HEV endothelium but not other endothelia. Lastly, it is expressed by a limited number of lymphoblastoid and leukemic cell lines.

**Synonyms:**

Thy-1, THY1, CDw90