

Mouse anti-Human, Cow CD90 / Thy1 Monoclonal Antibody | anti-THY1 antibody

CD90 / Thy1 (Stromal / Mesenchymal Marker) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62860	Mouse	Human, Cow	Immunofluorescence, Flow Cytometry, Functional Assay

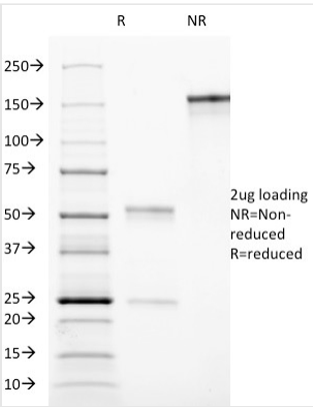
PRODUCT SYNONYMS

CD90 / Thy1; Monoclonal Antibody; CD90 / Thy1 (Stromal / Mesenchymal Marker) Mouse Monoclonal Antibody; CD90; Theta antigen; Thy 1 cell surface antigen; Thy 1 membrane glycoprotein; Thy 1.2; Thy-1 antigen; Thy-1 membrane glycoprotein; Thy1; Thy1 T cell antigen; Thy1.1; Thy1.2; Thymus cell antigen 1; theta; anti-THY1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Cow
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	AF-9
Specificity	Recognizes a protein of 18-35kDa, identified as CD90 (also known as Thy1). CD90 is 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 kDa) 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
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	161
Applicable Applications for anti-THY1 antibody	IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cell Surface
Immunogen	Human T-lymphoma cells
Hu-Chromosome Location	11q23.3
Positive Control	IMR-32, CCRF-CEM or MOLT-4 cells. Human uterus.
Preparation and Storage	Antibody with azide - store at 2 to 8°C. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified CD90 Mouse Monoclonal antibody (AF-9). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Beissert S et al. Impaired cutaneous immune responses in Thy-1-deficient mice. J Immunol 1998, 161(10):5296-302 Williams, A.F., and J. Gagnon. 1982. Neuronal cell Thy-1 glycoprotein: Homology with immunoglobulin. Science 216: 696 - 703 Fujita N et al. Aggregation of Thy-1 glycoprotein induces thymocyte apoptosis through activation of CPP32-like proteases. Exp Cell Res 1997, 232(2):400-406 KroczeK, R.A., K.C. Gunter, R.N. Germain, and E.M. Shevach. 1986. Thy-1 functions as a signal transduction molecule in T lymphocytes and transfected B lymphocytes. Nature 322: 181 - 184
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NCBI AND UNIPROT INFORMATION

NCBI GI #	902967471
NCBI GeneID	7070
NCBI Accession #	NP_001298089.1
NCBI GenBank Nucleotide #	NM_001311160.1
UniProt Accession #	P04216; Q16008; Q9NSP1
Molecular Weight	18-35kDa
NCBI Official Full Name	thy-1 membrane glycoprotein preproprotein
NCBI Official Synonym Full Names	Thy-1 cell surface antigen
NCBI Official Symbol	THY1
NCBI Official Synonym Symbols	CD90; CDw90
NCBI Protein Information	thy-1 membrane glycoprotein
UniProt Protein Name	Thy-1 membrane glycoprotein
UniProt Gene Name	THY1
UniProt Entry Name	THY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.