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CD90 / Thy1 (Anti-Mouse) (Stromal / Mesenchymal Marker) Antibody - With BSA and Azide

Rat Monoclonal Antibody [Clone IBL-6/23]
Catalog # AH10906

Product Information

Application	IF, FC
Primary Accession	P01831
Other Accession	21838 (Mouse), 3951 (Mouse)
Reactivity	Mouse
Host	Rat
Clonality	Monoclonal
Isotype	Rat / IgG1, kappa
Clone Names	IBL-6/23
Calculated MW	18080

Additional Information

Gene ID	21838
Other Names	Thy-1 membrane glycoprotein, Thy-1 antigen, CD90, Thy1, Thy-1
Application Note	IF~~1:50~200 FC~~1:10~50
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.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	CD90 / Thy1 (Anti-Mouse) (Stromal / Mesenchymal Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Thy1
Synonyms	Thy-1
Function	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor.

Background

Recognizes a protein of 25kDa, identified as mouse Thy-1 (also known as CD90). It is a glycosyl phosphatidylinositol-anchored surface glycoprotein. 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; 25-35kDa) inserted into the cell membrane via a GPI anchor. Thy-1 is expressed mainly on brain and lymphoid tissues including thymocytes, Peripheral T-cells, and some intraepithelial T-lymphocytes. Thy-1 may play a role in T cell activation, development and function of nervous system, and apoptosis.

References

Beissert S et al. Impaired cutaneous immune responses in Thy-1-deficient mice. J Immunol 1998, 161(10):5296-302Williams, A.F., and J. Gagnon. 1982. Neuronal cell Thy-1 glycoprotein: Homology with immunoglobulin. Science 216: 696 - 703Fujita 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