

Anti-Mouse CD90.2 (Thy-1.2) SAFIRE Purified

Catalogue Number : 03012-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 30-H12

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Rat IgG2b, kappa

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC, FA

Description

The 30-H12 monoclonal antibody specifically binds to Mouse CD90.2, an alloantigen known as Thy-1.2, expressed on thymocytes, mature T cells, epithelial cells, neurons, hematopoietic stem cells, and fibroblasts. CD90 is a membrane glycoprotein that regulates the adhesion and signal transduction in T lymphocytes, and the adhesion of thymocytes to thymic stroma.

The interaction between 30-H12 and the antibody to the CD3/TCR complex upregulates thymocytes signal transduction and apoptosis and downregulates mature T cell proliferation. The 30-H12 antibody seems to be unable to cross-link with CD90.1.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Ledbetter, J. A., Herzenberg, L. A. (1979). Xenogeneic Monoclonal Antibodies to Mouse Lymphoid Differentiation Antigens*. Immunological reviews., 47(1), 63-90.
2. Hathcock, K. (1991). T cell enrichment by cytotoxic elimination of B cells and accessory cells. Current protocols in immunology, 3-3.
3. Nakashima, I. Z. U. M. I., Zhang, Y. H., Rahman, S. M., Yoshida, T. O. M. O. A. K. I., Isobe, K. L., Ding, L. N., ... Taguchi, R. (1991). Evidence of synergy between Thy-1 and CD3/TCR complex in signal delivery to murine thymocytes for cell death. The Journal of Immunology., 147(4), 1153-1162.