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Technical Data Sheet

Anti-Human CD45 Purified

Catalogue Number : 07111-20

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

Product Information

Clone: HI30
Format/Conjugate: Purified
Concentration: 0.5 mg/mL
Reactivity: Human
Laser: Not Applicable
Peak Emission: Not Applicable
Peak Excitation: Not Applicable
Filter: Not Applicable
Brightness (1=dim,5=brightest): Not Applicable
Isotype: Mouse IgG1, kappa
Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.
Applications: FC, FA, IHC, ICC, IP, WB

Description

The HI30 monoclonal antibody specifically reacts with the 180 kDa, 190 kDa, 205 kDa, and 220 kDa isoforms of the human leukocyte common antigen (LCA) CD45. It is expressed on lymphocytes, granulocytes, monocytes, thymocytes, and eosinophils, but not on mature erythrocytes, platelets, mature erythroid cells of bone marrow, and non-hematopoietic tissues. CD45 is essential for T cell activation and the tyrosine phosphatase activity of its intracellular region is integral for signal transduction.

Preparation & Storage

The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

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.Knapp W;(1989) Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.

2. Ninomiya, M., Abe, A., Katsumi, A., Xu, J., Ito, M., Arai, F., ... ; Naoe, T. (2006). Homing, proliferation and survival sites of human leukemia cells in vivo in immunodeficient mice.;Leukemia,;21(1), 136-142.

3. Yoshino, N., AMI, Y., TERAO, K., TASHIRO, F., ; HONDA, M. (2000). Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of cynomolgus monkeys (Macaca fascicularis) by using anti-human cross-reactive antibodies.;Experimental Animals,;49(2), 97-110.