

Anti-Human C79a PerCP-Cyanine5.5

Catalogue Number : 09511-70

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

Product Information

Clone: HM47

Format/Conjugate: PerCP-Cyanine5.5

Concentration: 5 uL (0.03 ug)/test

Reactivity: Human, Mouse

Laser: Blue (488nm)

Peak Emission: 695nm

Peak Excitation: 482nm

Filter: 695/40

Brightness (1=dim,5=brightest): 3

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

Description

The HM47 monoclonal antibody reacts with the cytoplasmic domain of CD79a, a 47kDa type I integral membrane protein known as Iga or mb-1. It forms the part of the B-cell receptor complex with CD79b and is expressed on B cells from earliest pre-B to plasma cell stage. It is also reported that CD79a expresses weakly on myeloid cells and T cell precursors. CD79a is believed to be involved in transporting IgM to the surface of B cells.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Mason, D. Y., Cordell, J. L., Tse, A. G., Van Dongen, J. J., Van Noesel, C. J., Micklem, K., ... Borst, J. (1991). The IgM-associated protein mb-1 as a marker of normal and neoplastic B cells. *Journal of immunology (Baltimore, Md.: 1950)*, 147(11), 2474-2482.
2. Bhargava, P., Kallakury, B. V., Ross, J. S., Azumi, N., Bagg, A. (2007). CD79a is heterogeneously expressed in neoplastic and normal myeloid precursors and megakaryocytes in an antibody clone; dependent manner. *American journal of clinical pathology*, 128(2), 306-313.
3. Hashimoto, M., Yamashita, Y., Mori, N. (2002). Immunohistochemical detection of CD79a expression in precursor T cell lymphoblastic lymphoma/leukaemias. *The Journal of pathology*, 197(3), 341-347.