

Anti-Mouse CD48 PE

Catalog Number :10512-60

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

Product Information

Clone: HM48-1

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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

Isotype: Armenian Hamster IgG

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 HM48-1 monoclonal antibody specifically reacts with mouse CD48, a GPI-anchored molecule in the Ig superfamily. CD48 was previously known as BCM1 in mice, Blast-1 in humans, and OX-45 in rats. Its ligands are CD2 and CD244 and it is expressed on leukocytes to the exclusion of non-hematopoietic cells. The utilization of the HM48-1 antibody has been reported to prolong cardiac allografts survival in in vivo studies. The antibody blocks the interaction of CD2 and CD244, inhibits CTL priming, and blocks the binding of soluble CD2 to CD48 expressing 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. For flow cytometric staining, the suggested use of this reagent is ≤0.06 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

- 1.Kato, K., Koyanagi, M., Okada, H., Takanashi, T., Wong, Y. W., Williams, A. F., ... Yagita, H. (1992). CD48 is a counter-receptor for mouse CD2 and is involved in T cell activation.;The Journal of experimental medicine,;176(5), 1241-1249.
2. Qin, L., Chavin, K. D., Lin, J., Yagita, H., Bromberg, J. S. (1994). Anti-CD2 receptor and anti-CD2 ligand (CD48) antibodies synergize to prolong allograft survival.;The Journal of experimental medicine,;179(1), 341-346.
3. Chavin, K. D., Qin, L., Lin, J., Woodward, J., Baliga, P., Kato, K., ... Bromberg, J. S. (1994). Anti-CD48 (murine CD2 ligand) mAbs suppress cell mediated immunity in vivo.;International immunology,;6(5), 701-709.