biogems
Enabling Science through Innovation

Technical Data Sheet

Anti-Mouse MHC Class I (H-2Kd/H-2Dd) FITC

Catalog Number :86112-50

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

Product Information

Clone: 34-1-2S

Format/Conjugate: FITC

Concentration: 0.5 mg/mL

Reactivity: Mouse

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

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

Isotype: Mouse IgG2a, 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 34-1-2S monoclonal antibody specifically reacts with the mouse H-2k/H2D MHC class I alloantigens, which are involved in antigen presentation to T cells. The 34-1-2S antibody cross-reacts with the b, p, q, r, and s haplotypes.

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 ≤1 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Ozato, K., Sachs, D. H. (1981). Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2b haplotype reveal genetic control of isotype expression.;The Journal of Immunology,126(1), 317-321.

2. Brennan, J., Mager, D., Jefferies, W., Takei, F. (1994). Expression of different members of the Ly-49 gene family defines distinct natural killer cell subsets and cell adhesion properties.;The Journal of experimental medicine,;180(6), 2287-2295.

3. Campbell, I. L., Harrison, L. C., Colman, P. G., Papaioannou, J., Ashcroft, R. G. (1986). Expression of class I MHC proteins on RIN-m5F cells is increased by interferon-γ and lymphokine-conditioned medium.;Diabetes,;35(11), 1225-1228.

email: info@bio-gems.com | domain: www.bio-gems.com | phone: 818.338.3312 | fax: 818.338.3316