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Technical Data Sheet

Anti-Mouse Foxp3 APC

Catalog Number :83812-80

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

Product Information

Clone: MF23

Format/Conjugate: APC

Concentration: 0.2 mg/mL

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

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

Isotype: Rat IgG2b

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 MF23 monoclonal antibody specifically reacts with the mouse 50-55 kDa Foxp3 protein (JM2, IPEX), a member of the forkhead family of transcription factors. Foxp3 is expressed by the Treg lymphocytes, whose development and function are influenced by the forkhead protein. Ectopic expression of Foxp3 in T lymphocytes inhibits their activity and cytokine expression. Mutations of Foxp3 result in the “scurfy” mice phenotype. It is reported that the MF23 antibody recognizes an epitope between 1-87 amino acids in the N-terminal domain of mouse Foxp3.

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 ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Ono, M., Yaguchi, H., Ohkura, N., Kitabayashi, I., Nagamura, Y., Nomura, T., ... Sakaguchi, S. (2007). Foxp3 controls regulatory T-cell function by interacting with AML1/Runx1.;Nature,;446(7136), 685-689.

2. Touitou, V., Daussy, C., Donnou, S., Galand, C., Bodaghi, B., Salomon, B. L., ... Sautès-Fridman, C. Naturally Occurring CD4 CD25 Foxp3 Regulatory T Cells Participate in but do not Govern Immune Escape in Primary Intraocular Lymphoma.

3. Hori, S., Nomura, T., Sakaguchi, S. (2003). Control of regulatory T cell development by the transcription factor Foxp3.;Science,;299(5609), 1057-1061.

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