

TECHNICAL DATA SHEET

APC Anti-Mouse FOXP3 (MF23)

Catalog Number: 20-0191

PRODUCT INFORMATION

Contents: APC Anti-Mouse FOXP3 (MF23)

Isotype: Rat IgG2b

Concentration: 0.2 mg/mL

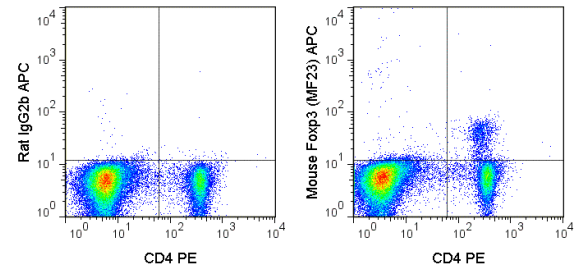
Clone: MF23

Reactivity: Mouse

Use By: 12 months from date of receipt

Storage Conditions: 2-8°C protected from light

Formulation: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH7.2



C57Bl/6 splenocytes were stained with PE Anti-Mouse CD4 (50-0042), followed by intracellular staining with 0.25 ug APC Anti-Mouse Fxp3 (20-0191) (right panel) or 0.25 ug APC Rat IgG2b isotype control (left panel).

DESCRIPTION

The MF23 antibody reacts with mouse Fxp3, a 50-55 kDa transcription factor which is a central regulator of T cell activity and is critical for the development and function of regulatory T cells (Tregs). Fxp3 is a member of the forkhead box or winged helix family of transcription factors and is expressed at constitutively high levels in Treg cells. Forced expression of Fxp3 in conventional T cells results in the upregulation of Treg associated molecules such as CD25, CTLA-4, and GITR and is sufficient to impart suppressive functional activity to these cells.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system. It is recommended to use the Transcription Factor Staining Buffer Kit (TNB-0607-KIT) for optimal staining results with this antibody.

REFERENCES

Ramos RN, Oliveira CE, Gasparoto TH, et al. 2012. Carcinogenesis. 33: 902-909. (Flow cytometry) Klein M, Vaeth M, Scheel T, Grabbe S, Baumgrass R, Berberich-Siebelt F, Bopp T, Schmitt E, and Becker C. 2012. J. Immunol. 188: 1091-1097. (Flow cytometry) Ansari AA, Reimann KA, Mayne AE, Takahashi Y, Stephenson ST, Wang R, Wang X, Li J, Price AA, Little DM, Zaidi M, Lyles R, and Villingier F. 2011. J. Immunol. 186: 1044-1059. (Flow cytometry – Rhesus macaque) Nagar M, Vernitsky H, Cohen Y, Dominissini D, Berkun Y, Rechavi G, Amarglio N, and Goldstein I. 2008. Int. Immunol. 20: 1041-1055. (Flow cytometry) Hombach AA, Kofler D, Hombach A, Rappi G, and Abken H. 2007. J. Immunol. 179: 7924-7931. (Flow cytometry) Gavin MA, Torgerson TR, Houston E, deRoos P, Ho WY, Stray-Pedersen A, Ocheltree EL, Greenberg PD, Ochs HD, and Rudensky AY. (Flow cytometry)

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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