

TECHNICAL DATA SHEET

APC Anti-Human Foxp3 with Isotype Control (TBhP3,

Catalog Number: 20-4773

PRODUCT INFORMATION

Kit Components	APC Anti-Human Foxp3 (TBhP3) Cat.No. 20-4776-T025 Size 25 tests (Page 2)
	APC Rabbit IgG Isotype Control (TBhISO) Cat.No. 20-4775-T025 Size 25 tests (Page 3)

Description

The TBhP3 antibody reacts with human Foxp3, 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). Foxp3, also known as Scurfin, JM2, or IPEX, is a member of the forkhead/winged-helix family of transcriptional regulators and is a marker of both natural and induced Tregs. Mutations in FoxP3 are associated with the X-linked IPEX syndrome in humans and with the X-linked mutation in mice that is responsible for 'Scurfy'.

Intracellular staining of human peripheral blood mononuclear cells (PBMCs) with TBhP3 antibody using the Foxp3/Transcription Factor Staining Buffer Kit reveals approximately 0.5-4% of lymphocytes staining, with the majority found in the CD25-bright population. There is significant variation between donors.

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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APC Anti-Human Foxp3 (TBhP3)

Catalog Number: 20-4776

PRODUCT INFORMATION

Contents: APC Anti-Human Foxp3 (TBhP3)

Isotype: Rabbit IgG

Concentration: 5µl (0.05µg)/test

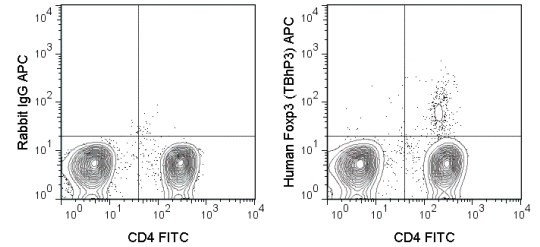
Clone: TBhP3

Reactivity: Human

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



Human peripheral blood lymphocytes were stained with FITC Anti-Human CD4 (35-0047), followed by intracellular staining with 0.05 ug APC Anti-Human Foxp3 (20-4776) (right panel) or 0.05 ug APC Rabbit IgG isotype control (left panel).

DESCRIPTION

The TBhP3 antibody reacts with human Foxp3, 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). Foxp3, also known as Scurfin, JM2, or IPEX, is a member of the forkhead/winged-helix family of transcriptional regulators and is a marker of both natural and induced Tregs. Mutations in FoxP3 are associated with the X-linked IPEX syndrome in humans and with the X-linked mutation in mice that is responsible for 'Scurfy'.

Intracellular staining of human peripheral blood mononuclear cells (PBMCs) with TBhP3 antibody using the Foxp3/Transcription Factor Staining Buffer Kit reveals approximately 0.5-4% of lymphocytes staining, with the majority found in the CD25-bright population. There is significant variation between donors.

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 pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 µl per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

REFERENCES

Brunkow ME, Jeffery EW, Hjerrild KA, Paepfer B, Clark LB, Yasayko SA, Wilkinson JE, Galas D, Ziegler SF, Ramsdell F. 2001. Nat Genet. 27(1):68-73.
 Bennett CL, Christie J, Ramsdell F, Brunkow ME, Ferguson PJ, Whitesell L, Kelly TE, Saulsbury FT, Chance PF, and Ochs HD. 2001. Nat Genet. 27, 20–21.
 Kaspirowicz DJ, Smallwood PS, Tyznik AJ, and Ziegler SF. 2003. J Immunol. 171 (3) 1216-1223.
 Zou. 2006. Nat Rev Immunol. 6:295–307.

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TECHNICAL DATA SHEET

APC Rabbit IgG Isotype Control (TBhISO)

Catalog Number: 20-4775

PRODUCT INFORMATION

Contents: APC Rabbit IgG Isotype Control (TBhISO)

Isotype: Rabbit IgG

Concentration: 5 μ l (0.05 μ g)/test

Clone: TBhISO

Reactivity: N/A

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

DESCRIPTION

The TBhISO immunoglobulin is useful as an isotype-matched control. It is used as an isotype control for rabbit IgG antibodies.

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 pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 μ L per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 μ L. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells.

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