Store at 4°C

PE Anti-Mouse FOXP3 Monoclonal Antibody

Catalog Number	Vial Size
M300F8-09A	25 µg
M300F8-09C	100 µg

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Important Note: Centrifuge before opening to ensure complete recovery of vial contents.
This product is guaranteed up to one year from purchase.

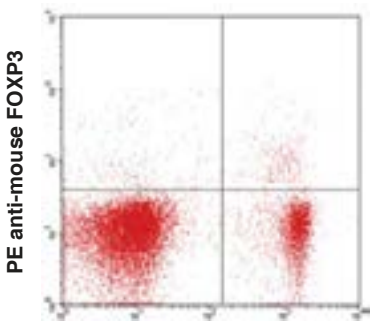
Purified Antibody Characterization

Clone	Isotype	Reactivity
MF-14	Rat IgG2b	Mouse

Description

FOXP3 is a 50-55 kD transcription factor, also known as Forkhead box protein P3, Scurfin, JM2, or IPEX. It is proposed to be a master regulatory gene and more specific marker of T regulatory cells than most cell surface markers (such as CD4 and CD25). Transduced expression of FOXP3 in $CD4^+/CD25^-$ cells has been shown to induce GITR, CD103, and CTLA4 and impart a T regulatory cell phenotype. FOXP3 is mutated in X-linked autoimmunity-allergic dysregulation syndrome (XLAAD or IPEX) in humans and in "scurfy" mice. Overexpression of FOXP3 has been shown to lead to a hypoactive immune state suggesting that this transcriptional factor is a central regulator of T cell activity. In human, unlike in mouse, two isoforms of FOXP3 have been reported: one (FOXP3) corresponding to the canonical full-length sequence; the other (FOXP3 δ2) lacking exon 2. The 150D monoclonal antibody reacts with human, mouse and rat FOXP3. The 150D antibody recognizes FOXP3 epitope encoded by exon 2.

Illustration of Immunofluorescent Staining



APC anti-mouse CD4

C57BL/6 splenocytes surface stained with
APC anti-mouse CD4 and PE anti-mouse FOXP3

Product Information

Conjugation: PE

Formulation: PBS pH 7.2, 0.09% NaN_3, 0.2% BSA

Concentration: 0.2 mg/ml

Storage: Keep as concentrated solution. Store at 4°C and protected from prolonged exposure to light. **Do not freeze.**

Application: Recommended Application: FC

Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis (The amount of the reagent is suggested to be used ≤ 1.0 µg /10^6 cells in 100 µl). Since applications vary, the appropriate dilutions must be determined for individual use.

References

[1] Ono M, et al.:Nature 2007 446:685.
[2] Hori S, et al. 2003. Science 299:1057.
[3] Fontenot JD, et al. 2003 Nature Immunol. 4:330.
[4] Fallarino F, et al. 2009. J. Immunol. 183:6033.
[5] Barber A, et al. 2009 J. Immunol. 183:6939.
[6] Nakashima H, et al. 2010. J. Immunol. 184:4637.

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