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Product name: Anti-Human/Mouse/Rat Foxp3 Monoclonal
Antibody(APC Conjugated)

Catalog: DL22206F

Synonyms: Forkhead box protein P3, IPEX, JM2, Foxp3

Background: 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 $\delta 2$) lacking exon 2. The 150D monoclonal antibody reacts with human, mouse and rat FOXP3. The 150D antibody recognizes FOXP3 epitope encoded by exon 2.

Form: Liquid

Isotype: Mouse IgG1, κ

Size: 20 Tests/50 Tests/100 Tests/200 Tests

Host: Mouse

Reactivity: Human, Mouse, Rat

Application: ICFCM

Concentration:

Conjugation: APC

SwissProt: Q9BZS1,Q99JB6

Buffer: PBS with 0.05% Proclin300, 1% BSA

Recommended Use:

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 5 μ L of antibody per test (million cells in 100 μ l staining volume or per 100 μ l of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data:

C57BL/6 splenocytes are surface stained with Anti-Mouse CD4 Monoclonal Antibody(FITC Conjugated) followed by fixation and permeabilization using the Foxp3 Staining/Transcription Factor Buffer Set and intracellular staining with Anti-Human/Mouse/Rat Foxp3 Monoclonal Antibody(APC Conjugated)

Storage:

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.