

anti-human/anti-mouse FoxP3 PE-conjugated

PE-conjugated monoclonal antibody to FoxP3

Cat-No: **21276104**

500 µl

Clone: 3G3

Specificity: The mouse monoclonal antibody 3G3 recognizes N-terminal region of FoxP3, a 47-55 kDa transcription factor, which is the master regulator in the development and function of regulatory T cells.

Isotype subclass: Mouse IgG1

Species Reactivity: Human, Mouse

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1% BSA and 0.09% sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

Application: Flow Cytometry, Western Blotting

Background: FoxP3 (Forkhead box protein 3), a highly conserved forkhead/winged-helix transcription factor, plays a crucial role in maintaining immune homeostasis by governing the development and function of regulatory T cells. It is constitutively expressed at high level in CD25+ CD4+ Treg cells and at low level in a CD25- CD4+ Treg cell subset. Defects in gene encoding FoxP3 protein cause the scurfy phenotype in mice, and in human the IPEX syndrome (immune dysfunction, polyendocrinopathy, enteropathy, X-linked syndrome), also known as X-linked autoimmunity-allergic dysregulation (XLAAD) syndrome.

References:

Regulatory T cells and inhibitory cytokines in autoimmunity. *Curr Opin Immunol.* 2009 Dec;21(6):612-8.

*Barnes MJ, Powrie F: Regulatory T cells reinforce intestinal homeostasis. *Immunity.* 2009 Sep 18;31(3):401-11.

*Kuhn A, Beissert S, Krammer PH: CD4(+)CD25 (+) regulatory T cells in human lupus erythematosus. *Arch Dermatol Res.* 2009 Jan;301(1):71-81

*Lal G, Bromberg JS: Epigenetic mechanisms of regulation of Foxp3 expression. *Blood.* 2009 Oct 29;114(18):3727-35.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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