

1P-601-C025

## Monoclonal Antibody to FoxP3 Phycoerythrin (PE) conjugated (0.025 mg)

<b>Clone:</b>	3G3
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	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.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Full-length His-tagged recombinant murine FoxP3
<b>Species Reactivity:</b>	Human, Mouse
<b>Preparation:</b>	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Concentration:</b>	0.5 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	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.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis. Suggested working concentration is 3 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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 <sup>+</sup> CD4 <sup>+</sup> Treg cells and at low level in a CD25 <sup>-</sup> CD4 <sup>+</sup> 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.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Bettini M, Vignali DA: 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.
  - \*Elkord E: Novel therapeutic strategies by regulatory T cells in allergy. *Chem Immunol Allergy.* 2008;94:150-7.
  - \*Lal G, Bromberg JS: Epigenetic mechanisms of regulation of Foxp3 expression. *Blood.* 2009 Oct 29;114(18):3727-35.
  - \*Gavin MA, Torgerson TR, Houston E, DeRoos P, Ho WY, Stray-Pedersen A, Ocheltree EL, Greenberg PD, Ochs HD, Rudensky AY: Single-cell analysis of normal and FOXP3-mutant human T cells: FOXP3 expression without regulatory T cell development. *Proc Natl Acad Sci U S A.* 2006 Apr 25;103(17):6659-64.
  - \*Law JP, Hirschhorn DF, Owen RE, Biswas HH, Norris PJ, Lanteri MC: The importance of Foxp3 antibody and fixation/permeabilization buffer combinations in identifying CD4+CD25+Foxp3+ regulatory T cells. *Cytometry A.* 2009 Dec;75(12):1040-50.

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