

A4-601-C025

Monoclonal Antibody to FoxP3 Alexa Fluor® 488 conjugated (0.025 mg)

Clone:	3G3
Isotype:	Mouse IgG1
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.
Regulatory Status:	RUO
Immunogen:	Full-length His-tagged recombinant murine FoxP3
Species Reactivity:	Human, Mouse
Preparation:	The purified antibody is conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Concentration:	0.5 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	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.
Usage:	The reagent is designed for Flow Cytometry analysis. Suggested working concentration is 4 µg/ml. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
Expiration:	See vial label
Lot Number:	See vial label
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.

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**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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