

## TECHNICAL DATA SHEET

### CyFlow™ FoxP3 PE Anti-Hu/Ms; Clone 3G3

**REF** BV376397



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**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

## Specifications

Antigen	FoxP3
Alternative Names	foxp3 ,Forkhead box P3 ,IPEX ,JM2 ,MGC141961 ,MGC141963 ,PIDX ,XPID
Clone	3G3
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG1
Species Reactivity	Human   Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [ 0.5 mg/mL ]
Immunogen	Full-length His-tagged recombinant murine FoxP3

## Specificity

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

## Application

The reagent is designed for flow cytometry analysis. Suggested working usage is 3 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.09% (w/v) sodium azide.

## Storage and Stability

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

## Background Information

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.

## Warnings











**Non-Hazardous Statement:** This is not considered hazardous by the criteria in 29 CFR 1910.1200 or the General Classification guideline for preparations of the EU.

**Safety Data Sheet Statement:** Important information regarding the safe handling, transport, and disposal of this product is contained in the Safety Data Sheet (SDS). SDS are available at <http://www.sysmex-partec.com/services>, or at <https://us.sysmex-flowcytometry.com/> (U.S. customers only).

## References

- 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 USA*. 2006 Apr 25; 103(17):6659-64. < PMID: 16617117 >
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- Bettini M, Vignali DA: Regulatory T cells and inhibitory cytokines in autoimmunity. *Curr Opin Immunol*. 2009 Dec; 21(6):612-8. < PMID: 19854631 >
- 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. < PMID: 19845018 >

## Symbols

	Reference number		Contains sufficient for <n> tests
	For research use only		Temperature limit
	Batch code		Keep away from sunlight
	Manufacturer		Consult accompanying documents
	Use-by date		Unique device identifier