

# Foxp3 Mouse Anti-Mouse mAb FITC Conjugate

Store at 2°C to 8°C

Catalog Number A18662

Pub. No. MAN0009013 Rev. 2.0

Catalog No.	Form	Amount	Excitation	Peak Emission
A18662	FITC	25 µg	488 nm	519 nm
A27079	FITC	100 µg	488 nm	519 nm

## Product description

The Foxp3 Mouse Anti-Mouse Monoclonal Antibody (mAb) reacts with mouse Foxp3, a 50–55 kDa transcription factor which is a central regulator of T cell activity and is critical for the development and function of regulatory T cells (Tregs). Foxp3 is expressed at constitutively high levels in Treg cells, which are further identified as being CD4+ CD25+. In resting conventional T cells (CD4+ CD25–) Foxp3 expression is restricted, and upon TCR activation is expressed only transiently and in a small proportion of cells. However, the growth factor TGF-beta has been shown to induce expression of Foxp3 in naïve T cells, driving their development into Foxp3+ Tregs, which are called “induced” or “adaptive” Tregs. These cells are phenotypically similar to so-called “natural” Tregs (CD4+ CD25high Foxp3+) which originate in the thymus and comprise the majority of Treg cells. It is important to review the literature in choosing an antibody for the Foxp3 antigen in flow cytometry, as the potential for high background or non-specific staining may be observed. The 3G3 clone may be used for intracellular detection of Foxp3 in cells from mouse and Rhesus macaque.

## Product specifications

<b>Clonality:</b>	Monoclonal
<b>Host/Class:</b>	Mouse IgG
<b>Reactivity:</b>	Mouse FoxP3
<b>Clone/PAD:</b>	3G3
<b>Isotype:</b>	IgG1κ
<b>Lot:</b>	See product label

## Product applications

Applications reported for the Foxp3 Mouse Anti-Mouse mAb include Flow Cytometry.

## Storage and handling

Store reagents at 2°C to 8°C. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Cells should be analyzed within 18 hours of staining for best results.

Avoid light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.

## Stability

When stored as instructed, expires six months from date of receipt unless otherwise indicated on the Certificate of Analysis.

## Storage buffer

Phosphate buffered saline (PBS) with 0.1% sodium azide.



**CAUTION!** Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

## Limited product warranty

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## Related products








Product Name	Quantity	Catalog No.
AbC™ Anti-Mouse Bead Kit	1 kit	A10344
AbC™ Anti-Rat/Hamster Bead Kit	1 kit	A10389
FIX & PERM® Reagents (200 tests)	1 kit	GAS004

Product Name	Quantity	Catalog No.
Blue (UV excitation)	1 kit	L23105
Violet (405 nm excitation)	(200 assays)	L34955
Aqua (405 nm excitation)		L34957
Yellow (405 nm excitation)		L34959
Green (488 nm excitation)		L23101
Red (488 nm excitation)		L23102
Far-red (633/635 nm excitation)		L10210
Near-IR (633/635 nm excitation)		L10119

## References

1. Ramos RN, Oliveira CE, Gasparoto TH, et al. 2012. Carcinogenesis. 33: 902-909. (Flow cytometry)
2. Klein M, Vaeth M, Scheel T, Grabbe S, Baumgrass R, Berberich-Siebelt F, Bopp T, Schmitt E, and Becker C. 2012. J. Immunol. 188: 1091-1097. (Flow cytometry)
3. Ansari AA, Reimann KA, Mayne AE, Takahashi Y, Stephenson ST, Wang R, Wang X, Li J, Price AA, Little DM, Zaidi M, Lyles R, and Villinger F. 2011. J. Immunol. 186: 1044-1059. (Flow cytometry – Rhesus macaque)
4. Nagar M, Vernitsky H, Cohen Y, Dominissini D, Berkun Y, Rechavi G, Amariglio N, and Goldstein I. 2008. Int. Immunol. 20: 1041-1055. (Flow cytometry)
5. Hombach AA, Kofler D, Hombach A, Rapp G, and Abken H. 2007. J. Immunol. 179: 7924-7931. (Flow cytometry).
6. Gavin MA, Torgerson TR, Houston E, deRoos P, Ho WY, Stray-Pedersen A, Ocheltree EL, Greenberg PD, Ochs HD, and Rudensky AY. (Flow cytometry)

## Explanation of symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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