

Product Data Sheet

Alexa Fluor® 647 anti-mouse/rat/human FOXP3

Catalog # / Size:320013 / 25 tests 320014 / 100 testsClone:150DIsotype:Mouse IgG1, κImmunogen:Full-length FOXP3 proteinReactivity:Human, Mouse, Rat, Cross-Reactivity: Cynomolgus, Rhesus, BaboonPreparation:The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.Formulation:Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (wiv) BSA (origin USA).Storage:The FOXP3 antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.Opplications:ICFC - Quality testedcommended Usage:Each lot of this FOXP3 antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 5 µl per 106 cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.			
 Isotype: Mouse IgG1, κ Immunogen: Full-length FOXP3 protein Reactivity: Human, Mouse, Rat, Cross-Reactivity: Cynomolgus, Rhesus, Baboon Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647. Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA). Storage: The FOXP3 antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze. Cplications: ICFC - Quality tested commended Usage: Each lot of this FOXP3 antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis. For immunofluorescent intracellular staining, the suggested use of this reagent is 5 µl per 10⁶ 647. 	Catalog # / Size:		\$
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* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633nm / 635nm.

Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Additional reported applications (for the relevant formats) include: Western blotting¹.

Surface Staining & FOXP3 Buffer Preparation:

Centrifugation steps: perform at 250Xg for 5min Incubation steps: perform at room temperature

Perform cell surface staining if necessary (See protocol: Cell Surface Immunofluorescence Staining Protocol).
 Prepare 1X buffer solutions of FOXP3 Fix/Perm buffer and FOXP3 Perm buffer in PBS.

NOTE: The FOXP3 Perm buffer (10X) may have crystalization or precipitation observed when it is stored at 2-8°C, however, it is normal and does not affect the buffer performance. If there is a heavy precipitation observed after diluting to 1X working solution, it may be clarified by filtering.

Caution: The FOXP3 Fix/Perm buffer contains paraformaldehyde, which is toxigenic and mutagenic. Please handle with caution and wear gloves, lab coat and necessary protection to avoid direct body contact.

FOXP3 Intracellular Staining Procedures:

3. Add 1 ml of 1X Biolegend's FOXP3 Fix/Perm solution to each tube, resuspend the cells (gentle vortex) and incubate at room temperature in the dark for 20 minutes, then centrifuge and remove the supernatant. The cell pellet will now be translucent and difficult to see; take care not to dislodge and accidentally aspirate cells at all later stages of staining protocol.

4. Wash: resuspend cells in cell staining buffer (Cat. No. 420201); centrifuge, then discard the supernatant. 5. Wash: resuspend in 1ml 1X BioLegend's FOXP3 Perm buffer; centrifuge, then discard the supernatant.

6. Resuspend cells in 1ml 1X BioLegend's FOXP3 Perm buffer, incubate in the dark for 15 minutes; centrifuge, then discard the supernatant. Resuspend the pellet in 100 µl of 1X BioLegend's FOXP3 Perm buffer.

7. Add appropriate amount of flurochrome conjugated anti-FOXP3 antibody and incubate at room temperature in the dark for 30 minutes.

8. Wash twice with cell staining buffer (see step 4) then resuspend in 0.5 ml cell staining buffer. Analyze with flow cytometer using appropriate instrument settings.



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NOTE: BioLegend's FOXP3 Fix/Perm buffer set (Cat. No. 421403) is specifically developed and formulated for intracellular staining FOXP3 with minimum effect on surface fluorochrome staining and is highly recommended for optimal result of FOXP3 intracellular immunofluorescence staining.

Application References:	 Roncador G, et al. 2005 Eur. J. Immunol. 35:1681. Mayack. S, et al. 2006. J. Immunol.176:2059. J. Immunol. Yang ZZ, et al. 2006. Blood 107:3639. Gavin MA, et al. 2006. Nature Immunology 7:755. Groh V, et al. 2006. Nature Immunol. 177:7155. Luke PPW, et al. 2007. J. Immunol. 178:1809. Valencia X, et al. 2007. J. Immunol. 178:2579.PubMed Davidson TS, et al. 2007. J. Immunol. 178:2579.PubMed Davidson TS, et al. 2007. J. Immunol. 178:2579.PubMed Davidson TS, et al. 2007. J. Immunol. 179:2779.PubMed Davidson TS, et al. 2007. J. Immunol. 179:6193. Müller M, et al. 2007. J. Immunol. 179:2774. Jordan JM, et al. 2008. J. Immunol. 181:2855. PubMed Fallarino F, et al. 2008. J. Immunol. 181:2855. PubMed Fallarino F, et al. 2009. J. Exp Med. 206:2511. PubMed Banham Alison, et al. 2009. Vet Immunol and Immunop 127.3-4:376-381 Klunker S, et al. 2010. J. Immunol. 184:2583. PubMed 		
Description:	FOXP3 is a 50-55 kD transcription factor, also known as For proposed to be a master regulatory gene and more specific markers (such as CD4 and CD25). Transduced expression GITR, CD103, and CTLA4 and impart a T regulatory cell pl autoimmunity-allergic dysregulation syndrome (XLAAD or I FOXP3 has been shown to lead to a hypoactive immune st regulator of T cell activity. In human, unlike in mouse, two i corresponding to the canonical full-length sequence; the ot antibody reacts with human, mouse and rat FOXP3. The 19 2.	c marker of T regulatory c of FOXP3 in CD4+/CD25 henotype. FOXP3 is muta PEX) in humans and in "s ate suggesting that this tr soforms of FOXP3 have b her (FOXP3 δ2) lacking e	ells than most cell surface - cells has been shown to induce ted in X-linked scurfy" mice. Overexpression of anscriptional factor is a central been reported: one (FOXP3) xon 2. The 150D monoclonal
Antigen References:	1. Hori S, et al. 2003. Science 299:1057.		
Related Products	: Product Cell Staining Buffer FOXP3 Fix/Perm Buffer Set Alexa Fluor® 647 Mouse IgG1, κ Isotype Ctrl (ICFC) Human TruStain FcX [™] (Fc Receptor Blocking Solution)	Clone MOPC-21	Application FC, ICC, ICFC ICFC ICFC, IF FC, ICC, ICFC





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