

**FITC anti-human FOXP3**

**Catalog # / Size:** 2200530 / 100 tests  
2200525 / 25 tests

**Clone:** 206D

**Isotype:** Mouse IgG1, κ

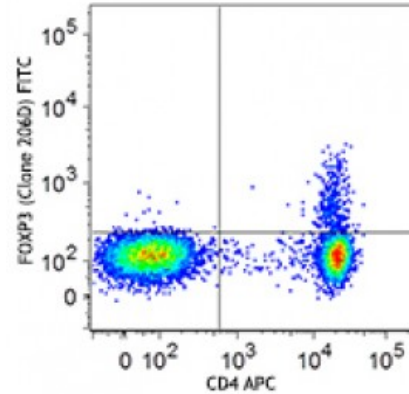
**Immunogen:** Full-length FOXP3 protein

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were surface stained with CD4 APC and then treated with True-Nuclear™ Transcription Factor Buffer Set. Cells were then stained with FOXP3 (clone 206D) FITC (top) or mouse IgG1, κ FITC isotype control (bottom)

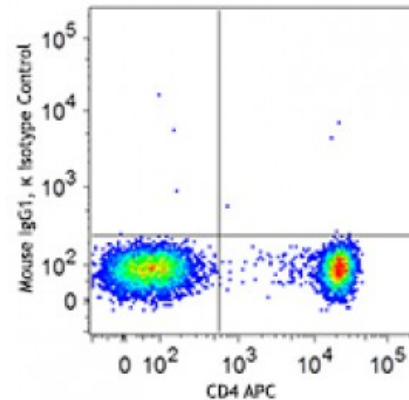
**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular flow cytometry. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunohistochemical staining<sup>1</sup> of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections, and Western blotting<sup>1</sup>. The binding of 206D to FOXP3 can be partially blocked by 259D, but 206D does not show significant blocking effect on 259D binding.

**NOTE:** For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. [424401](#)) offers improved staining and is highly recommended.



- Application** 1. Roncador G, *et al.* 2005. *Eur. J. Immunol.* 35:1681.
- References:** 2. Yang ZZ, *et al.* 2006. *Blood* 107:3639.  
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8. Gao Q, *et al.* 2007. *J Clin Oncol.* 25:2586. [PubMed](#)  
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18. Raghaven S, *et al.* 2009. *Ann Rheum Dis.* 68:1908. [PubMed](#)  
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20. Sziros E, *et al.* 2015. *Clin Cancer Res.* 21:2840. [PubMed](#)
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**Description:** FOXP3 is a 50-55 kD transcription factor, also known as Forkhead box protein P3, Scurfin, JM2, or IPEX. It is proposed to be a master regulatory gene and more specific marker of T regulatory cells than most cell surface markers (such as CD4 and CD25). Transduced expression of FOXP3 in CD4<sup>+</sup>/CD25<sup>-</sup> cells has been shown to induce GITR, CD103, and CTLA4 and impart a T regulatory cell phenotype. FOXP3 is mutated in X-linked autoimmunity-allergic dysregulation syndrome (XLAAD or IPEX) in humans and in "scurfy" mice. Overexpression of FOXP3 has been shown to lead to a hypoactive immune state suggesting that this transcriptional factor is a central regulator of T cell activity. In human, unlike in mouse, two isoforms of FOXP3 have been reported: one (FOXP3) corresponding to the canonical full-length sequence; the other (FOXP3  $\delta$ 2) lacking exon 2. The 206D antibody recognizes human FOXP3 epitope in the region of amino acids 105-235.

- Antigen** 1. Hori S, *et al.* 2003. *Science* 299:1057.
- References:** 2. Gandhi R, *et al.* 2010. *Nat. Immunol.* 11:846.