

**Purified anti-human FOXP3**

**Catalog # / Size:** 2200505 / 25 µg  
2200510 / 100 µg

**Clone:** 206D

**Isotype:** Mouse IgG1, κ

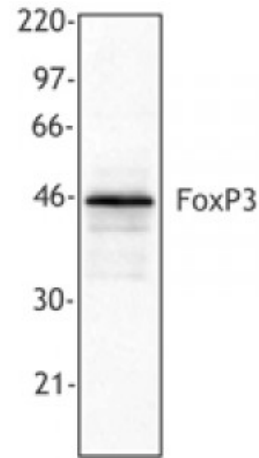
**Immunogen:** Full-length FOXP3 protein

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5



Cell extract from HEK293T cells transfected with human FoxP3 cDNA was resolved by electrophoresis, transferred to nitrocellulose, and probed with monoclonal anti-FoxP3 antibody (clone 206D). Proteins were visualized using a goat anti-mouse secondary conjugate.

**Applications:**

**Applications:** Other

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 microg per 10<sup>6</sup> cells in 100 microL volume. For Western blotting, the suggested working dilution(s) is ≤ 5.0 microg/ml in antibody dilution buffer. 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 References:**
1. Roncador G, *et al.* 2005 *Eur. J. Immunol.* 35:1681.
  2. Mayack. S,*et al.* 2006. *J. Immunol.*176:2059. [J. Immunol](#)
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  7. Luke PPW, *et al.* 2006. *Amer. J. Transplant.* 6(9):2023.
  8. Bamias G, *et al.* 2007. *J. Immunol.* 178:1809.
  9. Valencia X, *et al.* 2007. *J. Immunol.* 178:2579. [PubMed](#)
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  11. MacDonald K PA, *et al.* 2007. *Blood* doi:10.1182/blood-2007-01-067249.

12. Jaffar Z, *et al.* 2007. *J. Immunol.* 179:6193.
  13. Müller M, *et al.* 2007. *J. Immunol.* 179:2774.
  14. Jordan JM, *et al.* 2008. *Infect Human.* 76:3717. [PubMed](#)
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  16. Fallarino F, *et al.* 2009. *J. Exp Med.* 206:2511. [PubMed](#)
  17. Banham Alison, *et al.* 2009. *Vet Immunol and Immunop* 127.3-4:376-381
  18. Klunker S, *et al.* 2009. *J. Exp Med.* [PubMed](#)
  19. Haque A, *et al.* 2010. *J. Immunol.* 184:2583. [PubMed](#)
  20. Liu Y, *et al.* 2012. *Food Chem Toxicol.* 50:1920. [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.