

Product Data Sheet

Purified anti-human FOXP3

Catalog # / Size: 320101 / 25 μg

320102 / 100 µg

Clone: 206D

Isotype: Mouse IgG1, κ

Immunogen: full-length FOXP3 protein

Reactivity: Human, Cross-Reactivity: Baboon, Cynomolgus, Rhesus, Pigtailed

Macaque

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 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: WB - Quality tested

ICFC, IHC - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

intracellular staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is \leq 0.5 µg per 10⁶ cells in 100 µl volume. For Western blotting, the suggested working dilution(s) is \leq 5.0 µg/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 staining¹ of acetone-fixed frozen sections and formalin-fixed paraffin-embedded sections, and Western blotting¹. The binding of 206D to FOXP3 can be partially blocked by 259D, but 206D does

not show significant blocking effect on 259D binding.

Surface Staining & FOXP3 Buffer Preparation:

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

1. Perform cell surface staining if necessary (See protocol: Cell Surface Immunofluorescence Staining Protocol).

2. 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.

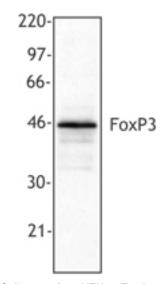
FOXP3 Intracellular Staining Procedures:

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.

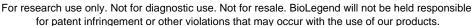
5. Wash: resuspend in 1ml 1X BioLegend's FOXP3 Perm buffer; centrifuge, then discard the supernatant.

6. Resuspend cells in 1ml 1X BioLegend's FOXP3 Perm buffer, incubate in



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 conjugated to HRP and a chemiluminescence detection system.







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.

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:

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- 12. Kavanagh B, et al. 2008. BloodPubMed
- 13. Nevala WK, et al. 2009. Clin Cancer Res. 15:1931. 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 ⁺/CD25⁻ 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 δ 2) lacking exon 2. The 206D antibody recognizes human FOXP3 epitope in the region of amino acids 105-235.

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

Related Products: Product

Purified anti-human CD150 (SLAM) Purified anti-human CD25 Purified anti-human CD3 Purified anti-human CD4 Purified anti-human CD3 Purified Mouse IgG1, κ Isotype Ctrl Cell Staining Buffer Purified anti-human IL-10 Purified anti-T-bet

FOXP3 Fix/Perm Buffer Set Human FoxP3 Transfected Cell Lysate Clone A12 (7D4) BC96 HIT3a RPA-T4 UCHT1 MOPC-21

JES3-19F1 Poly6235

lysate6299

Application

FC, ICC, ICC, IF, IHC, IVB

ELISA Capture, IHC, WB WB

ICFC WB



