

# FOXP3 Monoclonal Antibody (236A/E7), PE-Cyanine5, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human, Non-human primate, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	236A/E7
Conjugate	PE-Cyanine5
Excitation/Emission Max	568/666 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2811750

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	7 Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	9 Publications

## Product Specific Information

**Description:** The 236A/E7 antibody reacts with human foxp3 protein also known as FORKHEAD BOX P3, SCURFIN, and JM2; cross reactivity of this antibody to other proteins has not been determined. Foxp3, a 49-55 kDa protein, is a member of the forkhead/winged-helix family of transcriptional regulators, and was identified as the gene defective in 'scurfy' (sf) mice. Constitutive high expression of Foxp3 mRNA has been shown in CD4+CD25+ regulatory T cells (Treg cells), and ectopic expression of foxp3 in CD4+CD25- cells imparts a Treg phenotype in these cells.

Intracellular staining and flow cytometric analysis of freshly isolated human peripheral blood mononuclear cells (PBMCs) with the 236A/E7 antibody using the Foxp3 Staining Buffer Set (cat. 00-5523) and protocol reveals staining of the CD4+CD25<sup>bright</sup> population.

The epitope from 236A/E7 is different from that of PCH101 (cat. 72-5776).

**Applications Reported:** This 236A/E7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 236A/E7 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol. Please refer to "Staining Intracellular Antigens for Flow Cytometry, Protocol B: One step protocol for intracellular (nuclear) proteins" located at [www.thermofisher.com/flowprotocols](http://www.thermofisher.com/flowprotocols). This may be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can

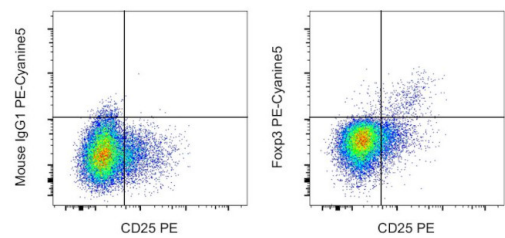
range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

**Excitation:** 488-561 nm; **Emission:** 667 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser

**Product Images For FOXP3 Monoclonal Antibody (236A/E7), PE-Cyanine5, eBioscience™**



**FOXP3 Antibody (15-4777-42) in Flow**  
Normal human peripheral blood cells were stained intracellularly, using the Foxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with CD25 Monoclonal Antibody, PE (Product # 12-0257-42) and Mouse IgG1 kappa Isotype Control, PE-Cyanine5 (Product # 15-4714-81) (left) or FOXP3 Monoclonal Antibody, PE-Cyanine5 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (7)

<p>International journal of molecular sciences</p> <p><b>Multiple Immunostainings with Different Epitope Retrievals-The FOLGAS Protocol.</b></p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 15-4777-42) in Immunohistochemistry"</p> <p>Authors: von Schoenfeld A,Bronsert P,Poc M,Fuller A,Filby A,Kraft S,Kurowski K,Sörensen K,Huber J,Pfeiffer J,Proietti M,Stehl V,Werner M,Seidl M</p>	<p>Year</p> <p>2021</p>
<p>Nature communications</p> <p><b>Immune cell topography predicts response to PD-1 blockade in cutaneous T cell lymphoma.</b></p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 15-4777-42) in Immunohistochemistry"</p> <p>Authors: Phillips D,Matusiak M,Gutierrez BR,Bhate SS,Barlow GL,Jiang S,Demeter J,Smythe KS,Pierce RH,Fling SP, Ramchurren N,Cheever MA,Goltsev Y,West RB,Khodadoust MS,Kim YH,Schürch CM,Nolan GP</p>	<p>Year</p> <p>2021</p>

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Flow Cytometry (9)

<p>International archives of allergy and immunology</p> <p><b>Changes of T Lymphocyte Subsets in Peripheral Blood of Patients with Intermediate and Advanced Cervical Cancer before and after Nimotuzumab Combined with Chemoradiotherapy.</b></p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 15-4777-42) in Flow Cytometry"</p> <p>Authors: Teng F,Cui G,Qian L,Zhao L</p>	<p>Year</p> <p>2023</p>
<p>The Journal of clinical endocrinology and metabolism</p> <p><b>Analysis of Expression of Different Histone Deacetylases in Autoimmune Thyroid Disease.</b></p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 15-4777-42) in Flow Cytometry"</p> <p>Authors: Sacristán-Gómez P,Serrano-Somavilla A,González-Amaro R,Martínez-Hernández R,Marazuela M</p>	<p>Year</p> <p>2021</p>

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