

FOXP3 Monoclonal Antibody (236A/E7), eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human, Non-human primate, Rhesus monkey
Published Species	Cynomolgus monkey, Rat, Non-human primate, Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	236A/E7
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467556

Applications	Tested Dilution	Publications
Western Blot (WB)	1-10 µg/mL	2 Publications
Immunohistochemistry (IHC)	-	66 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1-5 µg/mL	14 Publications
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	3 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	-	50 Publications
Immunoprecipitation (IP)	-	1 Publication
Radioimmune Assays (RIA)	-	1 Publication
Miscellaneous PubMed (Misc)	-	2 Publications

Product Specific Information

Description: The 236A/E7 antibody reacts with human Foxp3 protein also known as FORKHEAD BOX P3, SCURFIN, and JM2. 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/Transcription Factor Staining Buffer Set (Product # 00-5523) and protocol reveals staining of the CD4+CD25bright population.

The epitope from 236A/E7 is different from that of PCH101 (Product # 72-5776-40). This antibody has also been shown to recognize rhesus macaque, sooty mangabey and cynomolgus macaque.

Applications Tested: This 236A/E7 antibody has been tested by immunoblotting and immunohistochemistry of formalin-fixed paraffin embedded tissue using low or high pH antigen retrieval. For western blotting of reduced cell lysates (which include the nuclear fraction) the antibody can be used at 1-10 µg/mL and for IHC can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

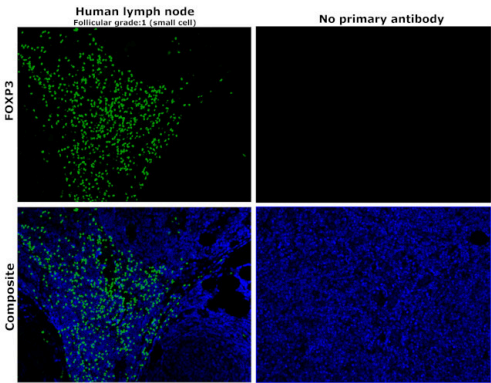
Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For FOXP3 Monoclonal Antibody (236A/E7), eBioscience™

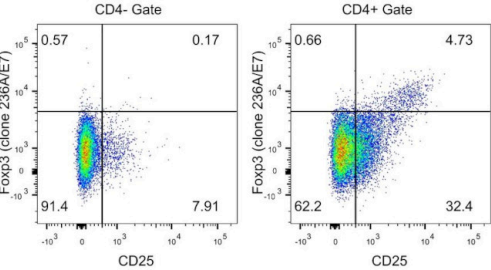
FOXP3 Antibody (14-4777-82) in IHC (P)

Immunohistochemical analysis of FOXP3 was performed using formalin-fixed paraffin-embedded human lymph node [Follicular Grade: I (small cell)] tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - High pH (10X) (Product # 00-4956-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 3% H2O2 for 1 h at room temperature followed by 2% normal goat serum in 1X PBS for 45 minutes at room temperature. The sections were then probed with or without FOXP3 Monoclonal Antibody (150D/E4), eBioscience™ (Product # 14-4777-82) at a concentration of 1 µg/mL in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Alexa Fluor™ 488 Tyramide SuperBoost™ Kit, goat anti-mouse IgG (Product # B40912). Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.



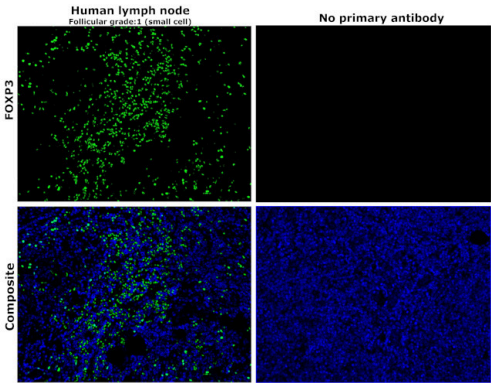
FOXP3 Antibody (14-4777-82)

Intracellular staining of human peripheral blood cells. As expected based on known expression patterns, Foxp3 clone 236A/E7 stains CD4+CD25+ T cells and does not stain CD4- cells or CD4+CD25- T cells. Details: Normal human peripheral blood cells were surface stained with CD4 (clone OKT4) and CD25 (clone BC96) followed by intracellular staining with Foxp3 (clone 236A/E7) using the Foxp3/Transcription Factor Staining Buffer Set and protocol. Lymphocytes in the CD4- (left) and CD4+ (right) gates were used for analysis. {RE}



FOXP3 Antibody (14-4777-82) in IHC (P)

Immunohistochemical analysis of FOXP3 was performed using formalin-fixed paraffin-embedded human lymph node [Follicular Grade: I (small cell)] tissue sections. To expose the target protein, heat-induced epitope retrieval was performed on de-paraffinized sections using eBioscience™ IHC Antigen Retrieval Solution - Low pH (10X) (Product # 00-4955-58) diluted to 1X solution in water in a decloaking chamber at 110 degree Celsius for 15 minutes. Following antigen retrieval, the sections were blocked with 3% H2O2 for 1 h at room temperature followed by 2% normal goat serum in 1X PBS for 45 minutes at room temperature. The sections were then probed with or without FOXP3 Monoclonal Antibody (236A/E7), eBioscience™ (Product # 14-4777-82) at a concentration of 1 µg/mL in 0.1% normal goat serum overnight at 4 degree Celsius in a humidified chamber. Detection was performed using Alexa Fluor™ 488 Tyramide SuperBoost™ Kit, goat anti-mouse IgG (Product # B40912). Nuclei were stained with DAPI (Product # D1306) and the sections were mounted using ProLong™ Glass Antifade Mountant (Product # P36984). The images were captured on EVOS™ M7000 Imaging System (Product # AMF7000) at 20X magnification and externally deconvoluted.



143 References

Western Blot (2)

<p>The Journal of biological chemistry</p> <p>Regulatory T Cell Modulation by CBP/EP300 Bromodomain Inhibition.</p> <p>"Published figure using FOXP3 monoclonal antibody (Product # 14-4777-82) in Flow Cytometry"</p> <p>Authors: Ghosh S,Taylor A,Chin M,Huang HR,Conery AR,Mertz JA,Salmeron A,Dakle PJ,Mele D,Cote A,Jayaram H,Setser JW,Poy F,Hatzivassiliou G,DeAlmeida-Nagata D,Sandy P,Hatton C,Romero FA,Chiang E,Reimer T,Crawford T,Pardo E,Watson VG,Tsui V,Cochran AG,Zawadzke L,Harmange JC,Audia JE,Bryant BM,Cummings RT,Magnuson SR,Grogan JL,Bellon SF,Albrecht BK,Sims RJ,Lora JM</p>	<p>Year 2016</p>
<p>Leukemia</p> <p>Malignant Tregs express low molecular splice forms of FOXP3 in Sézary syndrome.</p> <p>"14-4777 was used in Western Blotting to investigate the underlying mechanism of immunodeficiency during Sézary syndrome."</p> <p>Authors: Krejsgaard T,Gjerdrum LM,Ralfkiaer E,Lauenborg B,Eriksen KW,Mathiesen AM,Bovin LF,Gniadecki R,Geisler C,Ryder LP,Zhang Q,Wasik MA,Odum N,Woetmann A</p>	<p>Year 2008</p> <p>Species Human</p>

Immunohistochemistry (66)

<p>Journal of cancer research and clinical oncology</p> <p>The immune microenvironment after neoadjuvant therapy compared to upfront surgery in patients with pancreatic cancer.</p> <p>"14-4777-82 was used in Immunohistochemistry to analyzed the immune microenvironment in pancreatic cancer tumor tissue samples from patients treated with neoadjuvant therapy compared to patients after upfront surgery to gain knowledge about the immunological environment after therapy."</p> <p>Authors: Zwart ES,van Ee T,Doppenberg D,Farina A,Wilmink JW,Versteijne E,Busch OR,Besselink MG,Meijer LL,van Kooyk Y,Mebius RE,Kazemier G</p>	<p>Year 2023</p> <p>Species Human</p>
<p>Frontiers in oncology</p> <p>Spontaneous Regression of Ovarian Carcinoma After Septic Peritonitis; A Unique Case Report.</p> <p>"14-4777 was used in Immunohistochemistry to study a unique case of spontaneous regression of ovarian carcinoma after septic peritonitis."</p> <p>Authors: Roelofsen T,Wefers C,Gorris MAJ,Textor JC,Massuger LFAG,de Vries IJM,van Altena AM</p>	<p>Year 2023</p> <p>Species Human</p>

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