

Anti-Human Foxp3 Purified

Catalog Number: 14-4777

Also Known As: Forkhead Box P3, Scurfin, JM2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human Foxp3 Purified

REF **Catalog Number:** 14-4777

Clone: 236A/E7

Concentration: 0.5 mg/mL

Host/Isotype: Mouse IgG1, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

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^{bright} population.

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

Applications Tested

This 236A/E7 antibody has been tested by immunoblotting or IHC. For western blotting, it can be used at 1-10 µg/mL of reduced cell lysates (which include the nuclear fraction). It is recommended that the antibody be titrated in the assay system.

References

Green AM, Mattila JT, Bigbee CL, Bongers KS, Lin PL, Flynn JL. CD4(+) regulatory T cells in a cynomolgus macaque model of Mycobacterium tuberculosis infection. *J Infect Dis.* 2010 Aug 15;202(4):533-41. **(236A/E7 in cynomolgus macaque and sooty mangabey, IHC paraffin, PubMed)**

Estes JD, Gordon SN, Zeng M, Chahroudi AM, Dunham RM, Staprans SI, Reilly CS, Silvestri G, Haase AT. Early resolution of acute immune activation and induction of PD-1 in SIV-infected sooty mangabeys distinguishes nonpathogenic from pathogenic infection in rhesus macaques. *J Immunol.* 2008 May 15;180(10):6798-807. **(236A/E7 in rhesus, IHC paraffin, PubMed)**

Roncador, G., P.J. Brown, L. Maestre, S. Hue, J.L. Martinez-Torrecuadrada, K.L. Ling, S. Pratap, C. Toms, B.C. Fox, V. Cerundolo, F. Powrie, and A.H. Banham. Analysis of FOXP3 protein expression in human CD4+CD25+ regulatory T cells at the single-cell level. *Eur J Immunol.* 2005 Jun;35(6):1681-91. (236A/E7, IC(flow), IH(paraffin), PubMed)

Roncador G, Garcia JF, Garcia JF, Maestre L, Lucas E, Menarguez J, Ohshima K, Nakamura S, Banham AH, Piris MA. FOXP3, a selective marker for a subset of adult T-cell leukaemia/lymphoma. *Leukemia.* 2005 Dec;19(12):2247-53. (IHC paraffin sections using 236A/E7, PubMed)

Wolf D, Wolf AM, Rumpold H, Fiegl H, Zeimet AG, Muller-Holzner E, Deibl M, Gastl G, Gunsilius E, Marth C. The expression of the regulatory T cell-specific forkhead box transcription factor FoxP3 is associated with poor prognosis in ovarian cancer. *Clin Cancer Res.* 2005 Dec 1;11(23):8326-31. (IHC paraffin using 236A/E7, PubMed)

Alvaro T, Lejeune M, Salvado MT, Bosch R, Garcia JF, Jaen J, Banham AH, Roncador G, Montalban C, Piris MA. Outcome in Hodgkin's lymphoma can be predicted from the presence of accompanying cytotoxic and regulatory T cells. *Clin Cancer Res.* 2005 11(4):1467-73. (IHC paraffin using 236A/E7, PubMed)

Takahata Y, Nomura A, Takada H, Ohga S, Furuno K, Hikino S, Nakayama H, Sakaguchi S, Hara T. CD25+CD4+ T cells in human cord blood: an immunoregulatory subset with naive phenotype and specific expression of forkhead box p3 (Foxp3) gene. *Exp Hematol.* 2004 32(7):622-9.

Sakaguchi S. The origin of FOXP3-expressing CD4+ regulatory T cells: thymus or periphery. *J Clin Invest.* 2003 112(9):1310-2.

Hori S, Nomura T, Sakaguchi S. Control of regulatory T cell development by the transcription factor Foxp3. *Science.* 2003 299(5609):1057-61.

Related Products

12-4776 Anti-Human Foxp3 PE (PCH101)

14-4714 Mouse IgG1 K Isotype Control Purified (P3.6.2.8.1)
14-4776 Anti-Human Foxp3 Purified (PCH101)
72-5775 Anti-Mouse/Rat Foxp3 Staining Set PE (FJK-16s)
72-5776 Anti-Human Foxp3 Staining Set PE (PCH101 Set)

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