

Datasheet for ABIN2749083
anti-FOXP3 antibody (APC)[Go to Product page](#)

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Overview

Quantity:	0.1 mg
Target:	FOXP3
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This FOXP3 antibody is conjugated to APC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Full-length His-tagged recombinant murine FoxP3
Clone:	3G3
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 3G3 recognizes N-terminal region of FoxP3, a 47-55 kDa transcription factor (intracellular antigen), which is the master regulator in the development and function of regulatory T cells.
Cross-Reactivity (Details):	Human, Mouse
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	FOXP3
Alternative Name:	FoxP3 (FOXP3 Products)
Background:	Forkhead box P3,FoxP3 (forkhead box protein 3), a highly conserved forkhead/winged-helix transcription factor, plays a crucial role in maintaining immune homeostasis by governing the development and function of regulatory T cells. It is constitutively expressed at high level in CD25+ CD4+ Treg cells and at low level in a CD25- CD4+ Treg cell subset. Defects in gene encoding FoxP3 protein cause the scurfy phenotype in mice, and in human the IPEX syndrome (immune dysfunction, polyendocrinopathy, enteropathy, X-linked syndrome), also known as X-linked autoimmunity-allergic dysregulation (XLAAD) syndrome.,Scurfin, JM2, AIID, IPEX, PIDX, XPID, DIETER
Gene ID:	50943
UniProt:	Q9BZS1
Pathways:	Chromatin Binding , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Activated T Cell Proliferation

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL. Intracellular staining
Comment:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

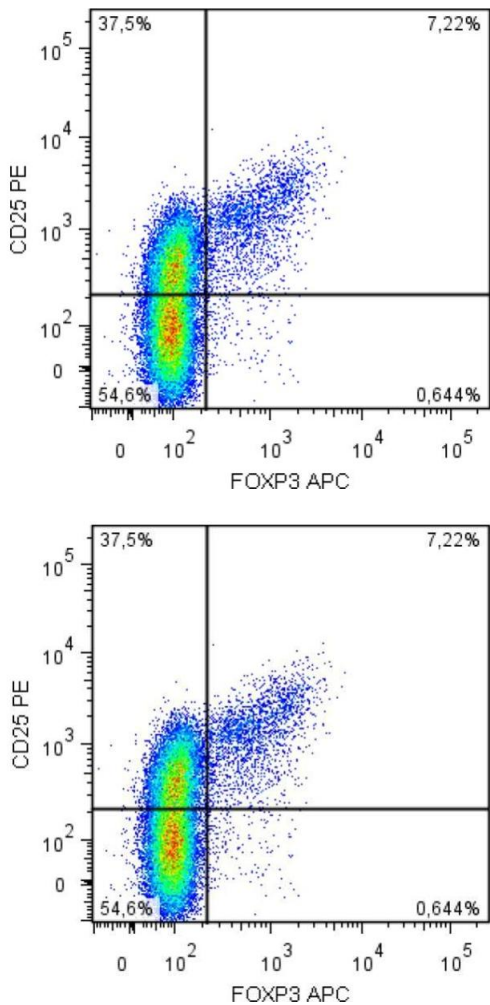
Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Law, Hirsch Korn, Owen, Biswas, Norris, Lanteri: "The importance of Foxp3 antibody and fixation/permeabilization buffer combinations in identifying CD4+CD25+Foxp3+ regulatory T cells." in: **Cytometry. Part A : the journal of the International Society for Analytical Cytology**, Vol. 75, Issue 12, pp. 1040-50, (2009) ([PubMed](#)).

Gavin, Torgerson, Houston, DeRoos, Ho, Stray-Pedersen, Ocheltree, Greenberg, Ochs, Rudensky: "Single-cell analysis of normal and FOXP3-mutant human T cells: FOXP3 expression without regulatory T cell development." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 103, Issue 17, pp. 6659-64, (2006) ([PubMed](#)).

Images

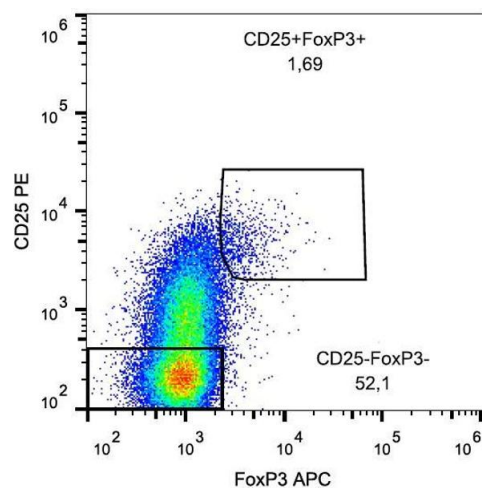


Flow Cytometry

Image 1. Flow cytometry analysis (intracellular staining) of human peripheral blood cells (gated on CD4+ cells) with anti-FoxP3 (clone 3G3).

Immunofluorescence

Image 2. Intracellular staining of human peripheral blood cells (gated on CD4+ cells) with anti-FoxP3 (clone 3G3).



Flow Cytometry

Image 3. Intracellular staining of human peripheral blood cells (gated on CD4⁺ cells) with anti-FoxP3 (clone 3G3) APC.