

ARG54202 anti-FOXP3 antibody [3G3]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [3G3] recognizes FOXP3
Tested Reactivity	Hu, Ms
Tested Application	FACS, WB
Specificity	The mouse monoclonal antibody 3G3 recognizes Nterminal region of FoxP3, a 4755 kDa transcription factor, which is the master regulator in the development and function of regulatory T cells.
Host	Mouse
Clonality	Monoclonal
Clone	3G3
Isotype	IgG1
Target Name	FOXP3
Species	Mouse
Immunogen	Full-length His-tagged recombinant murine FoxP3
Conjugation	Un-conjugated
Alternate Names	FOXP3; Forkhead Box P3; DIETER; XPID; AIID; PIDX; IPEX; JM2; Immune Dysregulation, Polyendocrinopathy, Enteropathy, X-Linked; Forkhead Box Protein P3; SCURFIN; Immunodeficiency, Polyendocrinopathy, Enteropathy, X-Linked; FOXP3delta7; Scurfin

Application Instructions

Application table	Application	Dilution
	FACS	1 - 4 µg/ml
	WB	2 µg/ml

Application Note

FACS: Staining method: - Perform staining of cell surface markers (CD25, CD4 etc.) for 10 min. at 4°C in the dark; 1 million cells in 100 µl final volume. - Add 1-2 ml of PBS with 1% BSA, centrifugate at 300g and discard the supernatant. Further steps perform on ice and with ice-cold reagents. - Resuspend the cells in 1 ml of cold fixation solution (Miltenyi Biotec) and incubate for 30 min. on ice. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 1-2 ml of ice-cold PBS with 1% BSA. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 1-2 ml of ice-cold permeabilization solution (Miltenyi Biotec) and incubate 5 min. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 80µl of ice-cold permeabilization solution and add 20 µl of FcR blocking solution and incubate for 5 min. (4°C, in the dark). - Perform intracellular staining of FoxP3 for 30 min. (4°C, in the dark) with appropriate amount of 3G3 antibody (final concentration 2-10 µg/ml; optimal concentration for peripheral blood is 3 µg/ml). - Add 1-2 ml of ice-cold permeabilization solution and incubate for 5 min. at 4°C in the dark. - Centrifugate for 5 min. at 1000 g, 4°C, and discard the supernatant. - Resuspend the cells in 300 µl of ice-cold PBS with 1% BSA and measure on a FACS device with appropriate setting as soon as possible. Keep cold until measuring. (If necessary, for the same sample use mouse IgG1 isotype control (MOPC-21) in the same format as anti-FoxP3 antibody 3G3.)

* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 20371 Mouse GeneID: 50943 Human Swiss-port # Q99JB6 Mouse Swiss-port # Q9BZS1 Human
Gene Symbol	Foxp3
Gene Full Name	forkhead box P3
Background	The protein encoded by this gene is a member of the forkhead/winged-helix family of transcriptional regulators. Defects in this gene are the cause of immunodeficiency polyendocrinopathy, enteropathy, X-linked syndrome (IPEX), also known as X-linked autoimmunity-immunodeficiency syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Function	Transcriptional regulator which is crucial for the development and inhibitory function of regulatory T-cells (Treg). [UniProt] Plays an essential role in maintaining homeostasis of the immune system by allowing the acquisition of full suppressive function and stability of the Treg lineage, and by directly modulating the expansion and function of conventional T-cells. [UniProt]
Highlight	Related products: FOXP3 antibodies: FOXP3 Duos / Panels: Anti-Rabbit IgG secondary antibodies: Related news: Tumor-Infiltrating Lymphocytes (TILs)
Research Area	Cell Biology and Cellular Response antibody; Gene Regulation antibody; Immune System antibody; Regulatory T cells Study antibody
Calculated Mw	47 kDa
PTM	Acetylation, Isopeptide bond, Phosphoprotein, Ubl conjugation. [UniProt]
Cellular Localization	Cytoplasm, Nucleus. [UniProt]