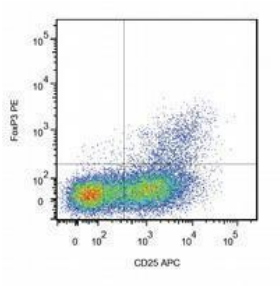
GeneTex
Quality Antibodies · Quality Results
GeneTex, Inc : Toll Free 1-877-GeneTex (1-877-436-3839) Fax:1-949-309-2888 info@genetex.com
GeneTex International Corporation : Tel:886-3-6208988 Fax:886-3-6208989 infoasia@genetex.com

Datasheet

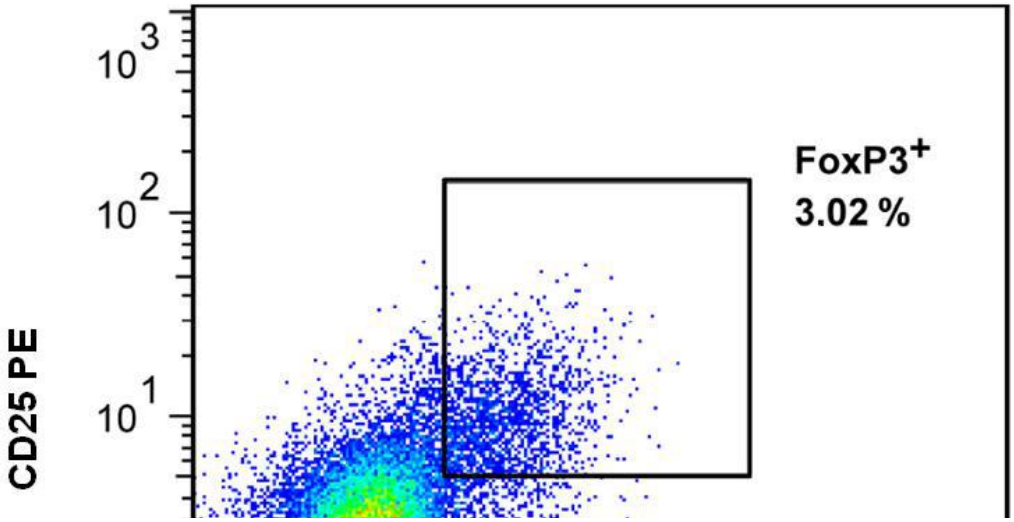
Date : 2016/4/12

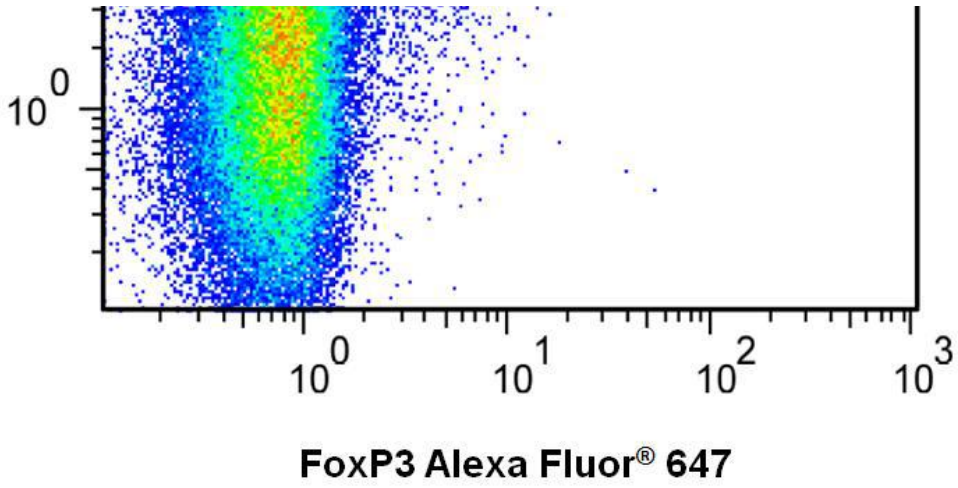
Catalog Number	GTX80283 Package:100 µg
Product Name	FOXP3 antibody [3G3]
Full Name	forkhead box P3
Synonyms	AIID, DIETER, IPEX, JM2, PIDX, XPID
Product Description	Mouse Monoclonal antibody [3G3] to FoxP3
Specificity	The mouse monoclonal antibody 3G3 recognizes N-terminal region of FoxP3, a 47-55 kDa transcription factor, which is the master regulator in the development and function of regulatory T cells.
Background	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.Entrez Gene (mouse): X 2.1 cM, (human): Xp11.23
Host	Mouse
Clonality	Monoclonal
Clone Name	3G3
Isotype	IgG1
Target	FoxP3
Immunogen	Full-length His-tagged recombinant murine FoxP3
Antigen Species	Human
Species Reactivity	Human, Mouse
Applications	FACS, WB
Application Note	**Recommended Starting Dilutions:** FACS: Note:Staining method: - Perform staining of cell surface markers (CD25, CD4 etc.) for 20 min. in the dark and RT. Wash. - Add cold fixation buffer diluted to working concentration (if commercial reagent is used, follow the manufacturer' s instructions) and incubate for 15 min. in 4 degree. - Add cold permeabilization buffer diluted to working concentration (if commercial reagent is used, follow the manufacturer' s instructions) to the pellet of cells. - Add 5-50ul of blocking solution (1% glycin, 0.1% gelatin) and incubate for 15 min. (4 degree, in the dark). - Perform intracellular staining of FoxP3 for 30 min. (4 degree, in the dark) with appropriate amount of 3G3 antibody (final concentration 2-10 µg/mL optimal concentration for peripheral blood is 3 µg/mL). - 2 x wash with staining buffer (PBS with 0.2% BSA), centrifugate (1500 g, 5 min., 4 degree) - Keep cold until measuring on a FACS device with appropriate setting. (If necessary, for the same Sample use mouse IgG1 isotype control (MOPC-21) in the same format as anti-FoxP3 antibody 3G3.) WB: Use at 2 µg/mL Optimal dilutions should be determined experimentally by the researcher.
Form Supplied	Liquid
Storage Buffer	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage Instruction	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Cancer > Type of cancer > Breast > Other Disease Related > Diabetes Immunology > Adaptive Immunity > T cell > Development-Selection



GTX80283 FACS Image

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





GTX80283 FACS Image

Intracellular staining of human peripheral blood cells (gated on CD4+ cells) with anti-FoxP3 (clone 3G3) (GTX80283)