

A Reliable Research Partner in Life Science and Medicine

Elab Fluor® 700 Anti-Mouse Foxp3 Antibody[3G3]

Catalog Number: E-AB-F1238M1

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Mouse Host Mouse

Isotype Mouse IgG1, κ

Clone No. 3G3

Isotype Control Elab Fluor® 700 Mouse IgG1, κ Isotype Control[MOPC-21] [Product E-AB-F09792M1]

Conjugation Elab Fluor® 700

Conjugation Information Elab Fluor® 700 is designed to be excited by the Red laser (627-640 nm) and detected

using an optical filter centered near 719 nm (e.g., a 725/40 nm bandpass filter).

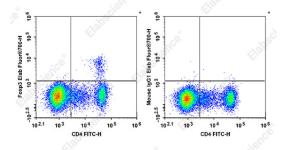
Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

Applications Recommended usage

FCM

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5 μ L of antibody per test (million cells in 100 μ L staining volume or per 100 μ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

Data



Staining of C57BL/6 murine splenocytes with FITC Anti-

Mouse CD4 Antibody[GK1.5] and Elab Fluor[®] 700 Anti-Mouse Foxp3 Antibody[3G3] (left) or Elab Fluor[®] 700 Mouse IgG1, κ Isotype Control (right). Total viable cells were used for analysis.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

Shipping Ice bag

Antigen Information

Alternate Names Forkhead box protein P3;Foxp3;IPEX;JM2

Uniprot ID Q99JB6

Gene ID 50943;20371;317382

For Research Use Only

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Background

Foxp3 is a 50-55 kD transcription factor, also known as Forkhead box protein P3, Scurfin, JM2, or IPEX. It is proposed to be a master regulatory gene and more specific marker of T regulatory cells than most cell surface markers (such as CD4 and CD25). Transduced expression of Foxp3 in CD4+/CD25- cells has been shown to induce GIT R, CD103, and CTLA4 and impart a T regulatory cell phenotype. Foxp3 is mutated in X-linked autoimmunity-allergic dysregulation syndrome (XLAAD or IPEX) in humans and in 'scurfy' mice. Overexpression of Foxp3 has been shown to lead to a hypoactive immune state suggesting that this transcriptional factor is a central regulator of T cell activity. In human, unlike in mouse, two isoforms of Foxp3 have been reported: one (Foxp3) corresponding to the canonical full-length sequence; the other (Foxp3 $\delta 2$) lacking exon 2.