

PE/Elab Fluor® 594 Anti-Mouse/Rat Foxp3 Antibody[FJK-16s]

Catalog Number: E-AB-F1351UP

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

Description

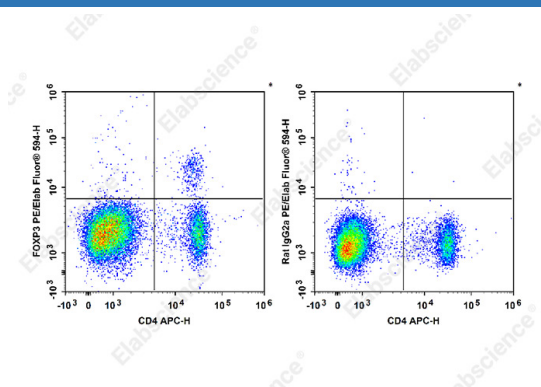
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|--------------------------------|---|
| Reactivity | Mouse;Rat |
| Host | Rat |
| Isotype | Rat IgG2a, κ |
| Clone No. | FJK-16s |
| Isotype Control | PE/Elab Fluor® 594 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833P] |
| Conjugation | PE/Elab Fluor® 594 |
| Conjugation Information | PE/Elab Fluor® 594 is designed to be excited by the blue (488 nm), Green (532 nm) and yellow-green (561 nm) lasers and detected using an optical filter centered near 620 nm (e.g., a 610/20 nm bandpass filter). |
| Storage Buffer | Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant. |

Applications

Recommended usage

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| FCM | Each lot of this antibody is quality control tested by flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results [The recommended concentration is 0.1-1 µg/10 ⁶ cells in 100 µL volume]. |
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Data



C57BL/6 murine splenocytes are stained with APC Anti-Mouse CD4 Antibody and PE/Elab Fluor® 594 Anti-Mouse/Rat FOXP3 Antibody[FJK-16s] (Left). Splenocytes are stained with APC Anti-Mouse CD4 Antibody and PE/Elab Fluor® 594 Rat IgG2a, κ Isotype Control (Right).

Preparation & Storage

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| 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

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| Alternate Names | Forkhead box protein P3;Scurfin;JM2;IPEX;Zinc finger protein JM2 |
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For Research Use Only

Toll-free: 1-888-852-8623
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Rev. V1.9

Uniprot ID

Q99JB6

Gene ID

20371

Background

FOXP3 is a 47 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 GITR, 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.

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