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# FITC Anti-Mouse/Rat Foxp3 Antibody[FJK-16s]

Catalog Number: E-AB-F1351UC

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

#### **Description**

Reactivity Mouse;Rat

Rat Host

Isotype Rat IgG2a, ĸ Clone No. FJK-16s

FITC Rat IgG2a, k Isotype Control[2A3] [Product E-AB-F09833C] Isotype Control

Conjugation

**Conjugation Information** FITC is designed to be excited by the Blue laser (488 nm) and detected using an optical

filter centered near 530 nm (e.g., a 525/40 nm bandpass filter).

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

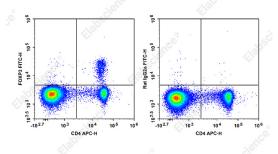
#### **Applications** Recommended usage

Each lot of this antibody is quality control tested by flow cytometric analysis. Please **FCM** 

> 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<sup>6</sup> cells

in 100 µL volume].

#### Data



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

### **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** IPEXJM2ScurfinZinc finger protein JM2;Forkhead box protein P3

**Uniprot ID** Q99JB6 Gene ID 20371

## For Research Use Only

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#### **Elabscience Bionovation Inc.**

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### **Background**

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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<sup>+</sup>/CD25<sup>-</sup> 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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