

## PE/Cyanine5 Anti-Mouse/Rat Foxp3 Antibody[FJK-16s]

Catalog Number: E-AB-F1351G

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

### Description

Reactivity	Mouse;Rat
Host	Rat
Isotype	Rat IgG2a, $\kappa$
Clone No.	FJK-16s
Isotype Control	PE/Cyanine5 Rat IgG2a, $\kappa$ Isotype Control[2A3] [Product E-AB-F09832G]
Conjugation	PE/Cyanine 5
Conjugation Information	PE/Cyanine5 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 670 nm (e.g., a 690/50 nm bandpass filter).
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.

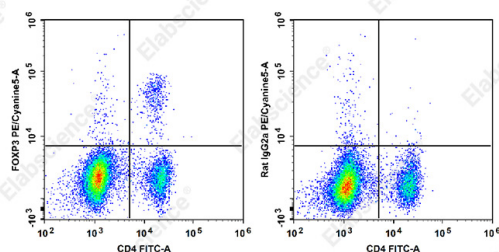
### Applications

### 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  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood).** Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

### Data



C57BL/6 murine splenocytes are stained with FITC Anti-Mouse CD4 Antibody and PE/Cyanine5 Anti-Mouse/Rat FOXP3 Antibody[FJK-16s] (Left). Splenocytes are stained with FITC Anti-Mouse CD4 Antibody and PE/Cyanine5 Rat IgG2a,  $\kappa$  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
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### For Research Use Only

**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<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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