

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

Catalog No.	E-AB-F1351UG	Reactivity	Mouse, Rat
Storage	Store at 2~8°C, Avoid freeze / thaw cycles	Applications	ICFCM

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

Antigen Information

Alternate Names	Forkhead box protein P3, Scurfin, JM2, IPEX, Zinc finger protein JM2
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.

Product Details

Form	Liquid
Concentration	0.2 mg/mL
Size	25µg/100µg
Clone No.	FJK-16s
Host	Rat
Isotype	Rat IgG2a, κ
Reactivity	Mouse, Rat
Application	ICFCM
Isotype Control	PE/Cyanine5 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833G]
Storage Buffer	Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer and 1% protein protectant.
Shipping	Biological ice pack at 4 °C
Stability & Storage	Keep as concentrated solution. Store at 2~8°C and protected from prolonged exposure to light. Do not freeze. This product is guaranteed up to one year from purchase.

For Research Use Only

Fluorophore

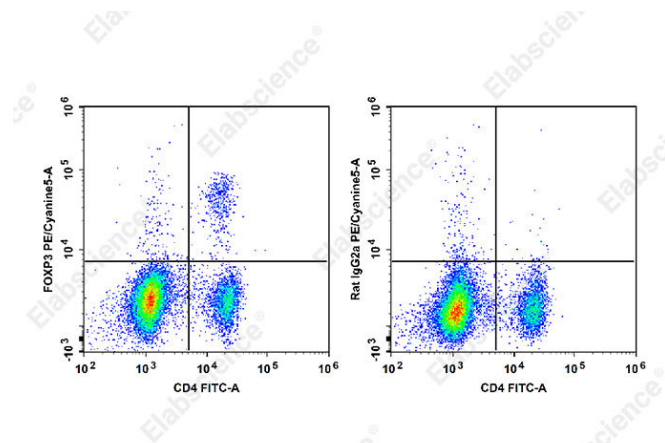
Conjugation: PE/Cyanine5

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).

Recommended usage

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 $\mu\text{g}/10^6$ cells in 100 μL volume].

Product 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, κ Isotype Control (Right).

Related Information

1. Sample Preparation for Flow Cytometry <https://www.elabscience.com/List-detail-5594.html>
2. Staining Intracellular Antigens for Flow Cytometry <https://www.elabscience.com/List-detail-5570.html>
3. Flow Cytometry Troubleshooting Tips <https://www.elabscience.com/List-detail-5593.html>
4. How to select the appropriate detection channel through the spectrogram? <https://www.elabscience.com/List-detail-459742.html>