

## Anti-Mouse/Rat FOXP3 APC

Catalog Number :83422-80

RUO: For Research Use Only. Not for use in diagnostic procedures.

### Product Information

**Clone:** FJK-16s

**Format/Conjugate:** APC

**Concentration:** 0.2 mg/ml

**Reactivity:** Mouse, Rat

**Laser:** Red (635 -655nm)

**Peak Emission:** 660nm

**Peak Excitation:** 650nm

**Filter:** 660/20

**Brightness (1=dim,5=brightest):** 5

**Isotype:** Rat IgG2a, kappa

**Formulation:** Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

**Storage:** Product should be kept at 2-8°C and protected from prolonged exposure to light.

**Applications:** FC

### Description

The FJK-16s monoclonal antibody specifically reacts with mouse and rat Foxp3, also known as Forkhead Box P3, Scurfin, IPEX, and JM2. The 49-55 kDA transcription factor is the primary marker for CD4+ CD25+ regulatory T cells. Treg cells suppress the cytokine production and proliferation of other T cells and are essential in T cell mediated autoimmunity. The FJK-16s antibody also cross reacts with porcine, dog, and cat.

### Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤1.0 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Gerner, W., Stadler, M., Hammer, S. E., Klein, D., Saalmüller, A. (2010). Sensitive detection of Foxp3 expression in bovine lymphocytes by flow cytometry.; *Veterinary immunology and immunopathology*,;138(1-2), 154-158.
2. Käser, T., Gerner, W., Hammer, S. E., Patzl, M., Saalmüller, A. (2008). Detection of Foxp3 protein expression in porcine T lymphocytes.; *Veterinary immunology and immunopathology*,;125(1-2), 92-101.
3. Lankford, S., Petty, C., LaVoy, A., Reckling, S., Tompkins, W., Dean, G. A. (2008). Cloning of feline FOXP3 and detection of expression in CD4+ CD25+ regulatory T cells.; *Veterinary immunology and immunopathology*,;122(1-2), 159-166.