

## Anti-Mouse Foxp3 FITC

Catalogue Number : 83412-50

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

### Product Information

**Clone:** 3G3

**Format/Conjugate:** FITC

**Concentration:** 0.5 mg/mL

**Reactivity:** Mouse

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**Isotype:** Mouse IgG1, 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 3G3 monoclonal antibody specifically reacts with the mouse 50-55 kDa Foxp3 protein (JM2, IPEX), a member of the forkhead family of transcription factors. Foxp3 is expressed by the Treg lymphocytes, whose development and function are influenced by the forkhead protein. Ectopic expression of Foxp3 in T lymphocytes inhibits their activity and cytokine expression.

Mutations of Foxp3 result in the "scurfy" mice phenotype.

### 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 ≤0.015 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

### References

1. Nagar, M., Vernitsky, H., Cohen, Y., Dominissini, D., Berkun, Y., Rechavi, G., ... ; Goldstein, I. (2008). Epigenetic inheritance of DNA methylation limits activation-induced expression of FOXP3 in conventional human CD25<sup>-</sup>; CD4<sup>+</sup> T cells. *International immunology*, 20(8), 1041-1055.
2. Bolzer, K., K&auml;ser, T., Saal&uuml;ller, A., ; Hammer, S. E. (2009). Molecular characterisation of porcine Forkhead-box p3 (&lt; i> Foxp3&lt; /i>). *Veterinary immunology and immunopathology*, 132(2), 275-281.
3. Gavin, M. A., Torgerson, T. R., Houston, E., Ho, W. Y., Stray-Pedersen, A., Ocheltree, E. L., ... ; Rudensky, A. Y. (2006). Single-cell analysis of normal and FOXP3-mutant human T cells: FOXP3 expression without regulatory T cell development. *Proceedings of the National Academy of Sciences*, 103(17), 6659-6664.