

Anti-Human Foxp3 PE

Catalog Number :83411-60

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

Product Information

Clone: PCH101

Format/Conjugate: PE

Concentration: 5 uL (0.25 ug)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 578nm

Peak Excitation: 496nm

Filter: 585/40

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: PE

Description

The PCH101 monoclonal antibody specifically reacts with human 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 PCH101 antibody also cross reacts with cynomolgus macaque, rhesus macaque, and chimpanzee.

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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

1. Allan, S. E., Crome, S. Q., Crellin, N. K., Passerini, L., Steiner, T. S., Bacchetta, R., ... Levings, M. K. (2007). Activation-induced FOXP3 in human T effector cells does not suppress proliferation or cytokine production. *International immunology*, 19(4), 345-354.
2. Tran, D. Q., Ramsey, H., Shevach, E. M. (2007). Induction of FOXP3 expression in naive human CD4+ FOXP3- T cells by T-cell receptor stimulation is transforming growth factor-β-dependent but does not confer a regulatory phenotype. *Blood*, 110(8), 2983-2990.
3. Pillai, V., Karandikar, N. J. (2008). Attack on the clones? Human FOXP3 detection by PCH101, 236A/E7, 206D, and 259D reveals 259D as the outlier with lower sensitivity. *Blood*, 111(1), 463-464.