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Technical Data Sheet

Anti-Human/Mouse OCT3/4 PE

Catalog Number :78011-60

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

Product Information

Clone: EM92

Format/Conjugate: PE

Concentration: 0.2 mg/mL

Reactivity: Human, Mouse

Laser: Blue (488nm), Yellow/Green (532-561nm)

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: FC

Description

The EM92 monoclonal antibody reacts with human and mouse Oct 3/4, a POU family transcription factor. Oct 3/4 is encoded by the Pou5F1 gene and expressed on undifferentiated cells and lost in adult tissue. Fbx15, FGF-4, NANOG, Rex1, and UTF1 expression is regulated with Oct 3/4 and in many cases gene expression is regulated in concert with Sox2.

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 ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Takahashi, K., Tanabe, K., Ohnuki, M., Narita, M., Ichisaka, T., Tomoda, K., Yamanaka, S. (2007). Induction of pluripotent stem cells from adult human fibroblasts by defined factors.;cell,;131(5), 861-872.

2. Niwa, H., Miyazaki, J. I., Smith, A. G. (2000). Quantitative expression of Oct-3/4 defines differentiation, dedifferentiation or self-renewal of ES cells.;Nature genetics,;24(4), 372-376.

3. Okamoto, K., Okazawa, H., Okuda, A., Sakai, M., Muramatsu, M., Hamada, H. (1990). A novel octamer binding transcription factor is differentially expressed in mouse embryonic cells.;Cell,;60(3), 461-472.

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