

Anti-Human/Mouse OCT3/4 Purified

Catalog Number :78011-20

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

Product Information

Clone: EM92

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Human, Mouse

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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.

Applications: WB, FA

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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. 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.