

Anti-Human/Mouse Oct3/4 -165Ho

Catalog #: 3165023A

Package Size: 50 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Mouse, Human

Clone: 40/Oct-3

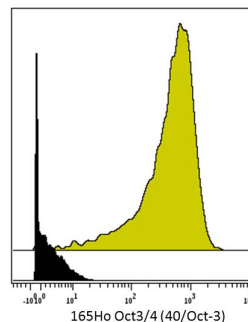
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human H9 embryonic stem cells (top) and human BJ fibroblasts (bottom) stained with 165Ho-anti-Oct3/4 (40/Oct-3).

Description

The Oct-4 transcription factor, also known as Oct-3 and Oct3/4, is a member of the POU family with Oct1, Oct2, Pit-1, and unc-86. Oct-4 can be detected in pluripotent cells and some differentiated cell types in both the nucleus and cytoplasm. Oct-4 forms a heterodimer with SOX2, another embryonal transcription factor, to synergistically regulate expression of genes such as Nanog, UTF1, and FGF4.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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