

Anti-Human Sox2-150Nd

Catalog #: 3150019B

Package Size: 100 tests

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

Cross Reactivity: Human

Clone: O30-678

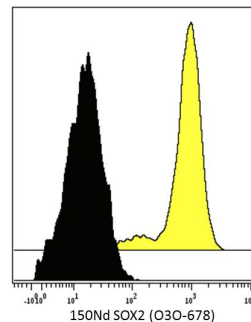
Isotype: Mouse IgG1

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 150Nd-anti-SOX2 (O3O-678).

Description

Sox2, also known as SRY (sex determining region Y)-box2, is a transcription factor that forms a trimeric complex with the homeobox transcription factors Oct4 and/or Nanog on DNA and controls the expression of a number of genes involved in embryonic development. Sox2 is critical for early embryogenesis and for embryonic stem cell pluripotency. Sox2 is also expressed not only in neural stem cells during embryonic development, but also differentiated cell types in the adult brain.

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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