

## Anti-Human Nestin-151Eu

Catalog: 3151013A

Package Size: 50 tests

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

Reactivity: Rat

Clone: 25/Nestin

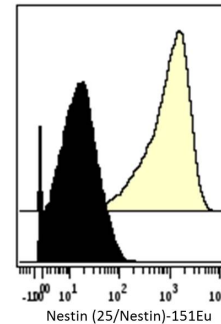
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human NTERA-2 cells (top) and human PBMC cells (bottom) were fixed, permeabilized, and stained with 151Eu-anti-Nestin(25/Nestin).

## Description

Nestin is a Class VI intermediate filament (IF) protein expressed in a variety of stem and progenitor cells, including primitive neuroepithelial cells and pancreatic exocrine progenitor cells. Structurally, Nestin has the shortest head domain (N-terminus) and the longest tail domain (C-terminus) of the entire IF proteins. Nestin regulates not only protein function, but gene function as well via direct binding to DNA. Nestin expression is used extensively as a marker to identify CNS stem cells in the developing nervous system and in cultured cells in vitro.

## 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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