

# Anti-Human Musashi-1-155Gd

Catalog: 3155013B

Package Size: 100 tests

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

Reactivity: Human

Clone: 14H1

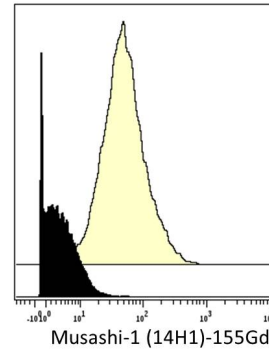
Isotype: Rat IgG2a

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 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 U-87 MG cells (top) and human K-562 cells (bottom) were fixed, permeabilized, and stained with 155Gd-anti- Musashi-1 (14H1). Total viable cells are displayed in analysis.

## Description

Musashi-1 (Msi-1), is a 39 kDa RNA-binding protein that was isolated as a mammalian homolog of a Drosophila protein. MSI-1 is selectively expressed in murine and human neural progenitor cells, including neural stem cells, can be used as a neural stem/progenitor cell marker, and plays an important role in the asymmetric division of neural stem cells. In recent years, Msi-1 was also found to be expressed in tissues outside the nervous system. It has been confirmed that Msi-1 is preferentially expressed in the predicted stem cell regions of mouse and human intestinal crypts, suggesting that it can serve as a potential marker for intestinal stem/progenitor cells. Msi-1 has also been observed in the stomach of chickens, mice, rats and humans. For the past several years, the functional role of Msi-1 in tumors has attracted increasing interest. Msi-1 overexpression has been reported in tumor tissues

## 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.

## For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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