Anti-GFAP-143Nd

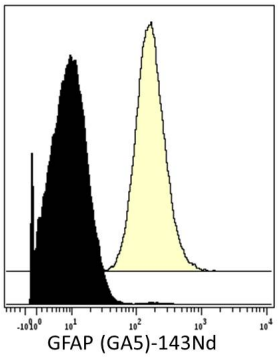
Catalog: 3143022B
Package Size: 100 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Rabbit, Rat, Mouse, Human, Porcine

Clone: GA5
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 10^6 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 Jurkat cells (bottom) were fixed, permeabilized, and stained with 143Nd-anti-GFAP (GA5). Total viable cells are displayed in analysis.

Description

Glial fibrillary acidic protein (GFAP) is a 49 kDa cytoskeletal type III intermediate filament and was first isolated from multiple sclerosis plaques. Intermediate filament maintain cell stability as well as cell shape. GFAP additionally plays a role in the modulation of cell motility, proliferation, vesicle trafficking and interaction between astrocytes and neurons and is a main component in astrocytes of the central nervous system. Following acute injury of the brain, but also progressive central nervous system degeneration, astrocytes are activated resulting in reactive gliosis. Activated astrocytes express enhanced GFAP levels and exist in many neurodegenerative disorders such as Alzheimer's and Parkinson's disease.

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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