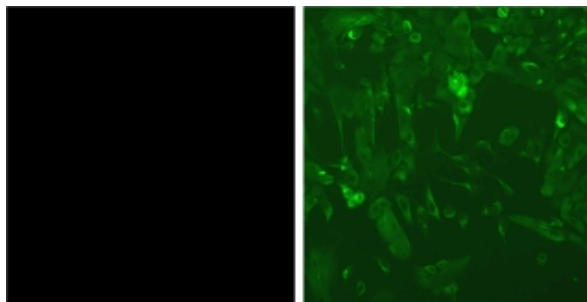


Anti-Human Nestin Alexa Fluor® 488

Catalog Number: 53-9843

RUO: For Research Use Only



Immunocytochemistry of fixed and permeabilized SK-N-SH cells using 10 µg/ml of Mouse IgG1 κ Isotype Control Alexa Fluor® 488 (cat. 53-4714) (left) or Anti-Human Nestin Alexa Fluor 488 (right).

Product Information

Contents: Anti-Human Nestin Alexa Fluor® 488

 Catalog Number: 53-9843

Clone: 10C2

Concentration: 0.5 mg/ml

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The monoclonal antibody 10C2 recognizes human nestin (residues 1464-1614). Nestin is a 220-240 kDa Class VI intermediate filament protein that is expressed in stem cells of the developing nervous system, specifically the neuroepithelium and angiogenic cells, and progenitors of pancreatic islet and mesenchymal cells. Additionally, expression has been identified in a variety of tumors such as glioblastomas and pancreatic tumors. Nestin containing filaments upon differentiation are replaced by cell type specific intermediate filament proteins, such as GFAP. No co-reactivity to rodent nestins has been observed using 10C2 antibody.

Applications Reported

This 10C2 antibody has been reported for use in immunohistochemical staining and immunocytochemistry.

Applications Tested

This 10C2 antibody has been tested by immunofluorescent staining of paraformaldehyde fixed and permeabilized cells. This can be used at less than or equal to 10µg A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Messam CA, Ding S, Haydon PG. Functional differentiation of human brain progenitor cells. *Neuron Glia Biol.* 2006 Aug;2(3):187-98.

Linning KD, Tai MH, Madhukar BV, Chang CC, Reed DN Jr, Ferber S, Trosko JE, Olson LK. Redox-mediated enrichment of self-renewing adult human pancreatic cells that possess endocrine differentiation potential. *Pancreas.* 2004 Oct;29(3):e64-76.

Messam CA, Hou J, Major EO. Coexpression of nestin in neural and glial cells in the developing human CNS defined by a human-specific anti-nestin antibody. *Exp Neurol.* 2000 Feb;161(2):585-96.

Related Products

53-4714 Mouse IgG1 K Isotype Control Alexa Fluor® 488

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