

Anti-Nestin Antibody

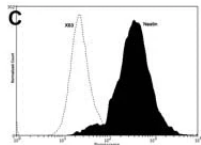
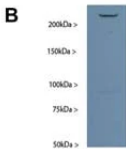
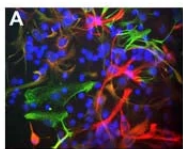


Product Details

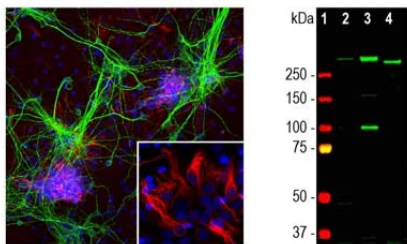
Available Variants	100 µg (SKU:M-1385-100)
Conjugate	Unconjugated
Clone	4D11
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, WB
Dilution Ranges	WB: 1:1000-1:5000 ICC: 1:250-1:500
Species Reactivity	Human, Mouse, Rat
Immunogen	Partial segment (region 317-630 aa) of human Nestin expressed in E.coli
Specificity	This antibody is specific for the 240 kDa Nestin protein by WB on developing rat brain (P18) homogenate. A much weaker band at approx. 90 kDa may also be seen. This is suggested to be a breakdown product of the 240 kDa band. Human, Rodent.
Molecular Weight	240 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	<u>P48681</u>

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



A: Mixed cultures of neonatal rat neurons and glia stained with Mouse monoclonal antibody to Nestin [4D11] M-1385-100 (red), Chicken polyclonal antibody to vimentin C-1409-50 (green) and DNA (DAPI stain, blue). Astrocytes and neuronal stem cells stain strongly and specifically in a clearly filamentous fashion with the Nestin antibody. The filamentous staining pattern is as expected as both Nestin and Vimentin are components of 10nm filaments. Note that some cells contain Nestin, but do not stain strongly for Vimentin and so appear red. Others contain Vimentin and not Nestin and so appear green- these are likely to be fibroblastic or endothelial cells. Some cells express both proteins and so appear yellowish. The presence of Nestin indicates that the cells are developing astrocytes, neuroblasts or undifferentiated neural stem cells. B: Western blot in of developing rat brain (P18) homogenate probed with mouse monoclonal antibody to Nestin M-1385-100. A single strong band running at ~240 kDa is seen. C: Analysis of nesting expression in human neuroblastoma SH-SY5Y by Flow Cytometry. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 1% BSA, Primary antibody: Mouse Monoclonal antibody to Nestin (cat # M-1385-100, 2µg per ~10⁶ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.



Left: Detection of nestin expression in cortical neuron-glia cell culture from E20 rat by **Immunocytochemistry**. Cells were stained with mouse anti-nestin antibody (1:500, red) and with chicken antibody to MAP2 (C-1382-50, 1:5,000, green). Blue: DAPI nuclear dye. The nestin antibody labels developing astrocytes and neuronal stem cells in a clearly filamentous fashion, while the MAP2 antibody stains dendrites and perikarya of mature neurons. **Right: Western blot** analysis of tissue and cell lysates with mouse antibody to nestin (1:500, green). [1] protein standard, [2] embryonic E18 rat brain, [3] C6 rat glioma cells, and [4] SH-SY5Y human neuroblastoma cells.

Product Page URL: www.antibodiesinc.com/products/anti-nestin-antibody-m-1385-100



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