Anti-Nestin Antibody [4D11] (A85293)

Specifications:

Name:	Anti-Nestin Antibody [4D11]
Description:	Mouse monoclonal (4D11) antibody to Nestin.
Applications:	WB, ICC/IF, IHC
Recommended Dilutions:	WB: 1:500, ICC/IF: 1:500
Reactivity:	Human, Rat, Mouse
Immunogen:	Recombinant construct corresponding to amino acids 317-630 of human Nestin, expressed in and purified from E. coli.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	4D11
Isotype:	IgG1
Conjugate:	Unconjugated
Purification:	Immunogen affinity purification.
Concentration:	1 mg/ml
Molecular Weight:	~240 kDa (by SDS-PAGE)
Product Form:	Liquid
Formulation:	Supplied in Phosphate Buffered Saline with 50% Glycerol and 5mM Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

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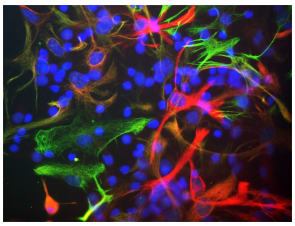
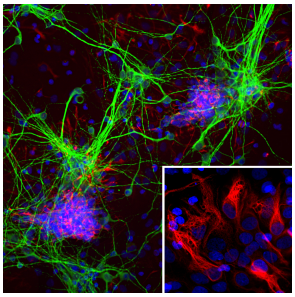
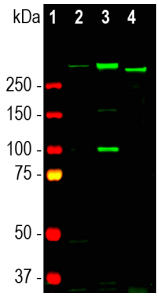
Images:



Mixed cultures of neonatal rat neurons and glia stained with Anti-Nestin Antibody (red), Anti-Vimentin Antibody (A85421 | green) and DNA (DAPI stain | blue). Astrocytes and neuronal stem cells stain strongly and specifically in a clearly filamentous fashion with the Anti-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.



Immunofluorescent analysis of cortical neuron-glial cell culture from E20 rat stained with Anti-Nestin Antibody [4D11] (A85293), at a dilution of 1:500, in red, and co-stained with Anti-MAP2 Antibody (A85363), at a dilution of 1:5,000, in green. The nuclear DNA is visualised in blue using Hoechst staining. The Anti-Nestin Antibody [4D11] (A85293) labels developing astrocytes and neuronal stem cells in a clearly filamentous fashion, while the Anti-MAP2 Antibody (A85363) stains dendrites and perikarya of mature neurons.



Western blot analysis of tissue and cell lysates using Anti-Nestin Antibody [4D11] (A85293), at a dilution of 1:500, in green. The lanes contain samples of: [1] Protein standards, in red, [2] embryonic E18 rat brain, [3] C6 rat glioma cells, and [4] SH-SY5Y human neuroblastoma cells.

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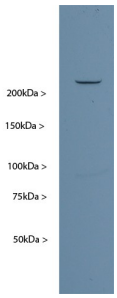
Images continued:



Western blot of developing rat brain (P18) homogenate probed with Anti-Nestin. A single strong band running at ~240 kDa is seen.