


Product datasheet

Anti-Nestin antibody - Neural Stem Cell Marker ab92391

★★★★★ [7 Abreviews](#) [37 References](#) [3 Images](#)

Overview

Product name	Anti-Nestin antibody - Neural Stem Cell Marker
Description	Rabbit polyclonal to Nestin - Neural Stem Cell Marker
Host species	Rabbit
Specificity	The immunoreactivity detected with Rabbit polyclonal to Nestin (ab92391) does not overlap in with that of the mature neuronal markers such as MAP2, NeuN, Neurofilament L and Beta-3-tubulin (data available on request).
Tested applications	Suitable for: ICC/IF Unsuitable for: IHC-FoFr or IHC-P
Species reactivity	Reacts with: Rat Predicted to work with: Human 
Immunogen	Synthetic peptide corresponding to Human Nestin aa 1600 to the C-terminus (C terminal) conjugated to keyhole limpet haemocyanin. (Peptide available as ab19375)
Positive control	This antibody gave a positive signal in P0 rat retinal cell culture and E16 rat hippocampal cell culture.
General notes	<p>ab92391 is raised using the same immunogen as ab5968. Batches sold under ab92391 have passed QC testing in ICC/IF only. In our hands, this product did not work in IHC-P. For further information please contact our Customer Services team.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -

80°C. Avoid freeze / thaw cycle.

Storage buffer

pH: 7.40

Preservative: 0.02% Sodium azide

Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity

Immunogen affinity purified

Clonality

Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab92391 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (4)	1/250.

Application notes

Is unsuitable for IHC-FoFr or IHC-P.

Target

Function

Required for brain and eye development. Promotes the disassembly of phosphorylated vimentin intermediate filaments (IF) during mitosis and may play a role in the trafficking and distribution of IF proteins and other cellular factors to daughter cells during progenitor cell division. Required for survival, renewal and mitogen-stimulated proliferation of neural progenitor cells.

Tissue specificity

CNS stem cells.

Sequence similarities

Belongs to the intermediate filament family.

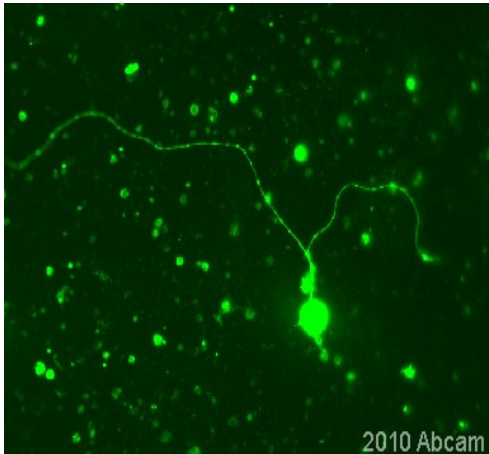
Developmental stage

Upon terminal neural differentiation, nestin is down-regulated and replaced by neurofilaments.

Post-translational modifications

Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.

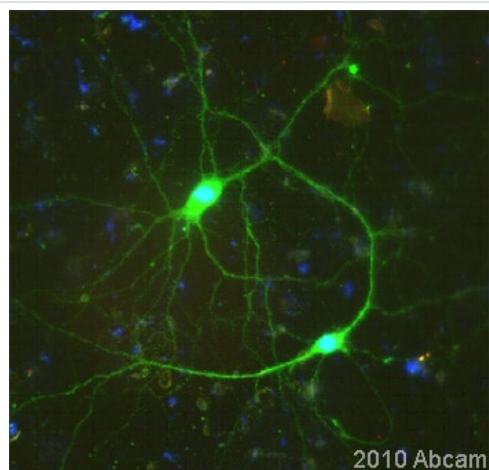
Images



Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody - Neural Stem Cell Marker (ab92391)

This image is courtesy of Ruma Raha-Chowdhury, University Of Cambridge, United Kingdom

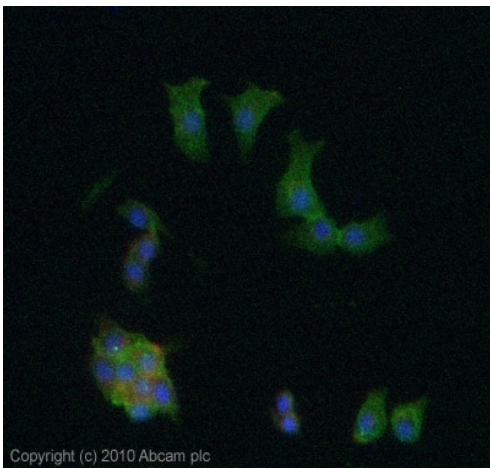
Immunocytochemical localisation of Nestin using ab92391 on P0 rat retinal culture. The image shows a nestin positive retinal ganglionic cell from P0 retina that has been grown for 7 days on a glass coverslip. Cover slips were fixed in 5% PFA in 0.1M PBS (1xPBS) for 5 minutes and washed with 0.1M PBS. Permeabilisation: 0.3% Triton X-100. Primary antibody ab92391 was diluted 1/250 and incubated for 2h @ RT. Secondary antibody: donkey anti-rabbit Alexa Fluor 488 (1/2000).



Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody - Neural Stem Cell Marker (ab92391)

This image is courtesy of Ruma Raha-Chowdhury, University Of Cambridge, United Kingdom

Immunocytochemical localisation of Nestin using ab92391 on E16 rat hippocampal cell culture. The image shows nestin positive rat hippocampal cells isolated from embryonic day 16 (grown in serum free conditions for 2-3 weeks). Cover slips were fixed in 5% PFA in 0.1M PBS (1xPBS) for 5 minutes and washed with 0.1M PBS. Permeabilisation: 0.3% Triton X-100. Primary antibody ab92391 was diluted 1/250 and incubated for 2h @ RT. Secondary antibody: donkey anti-rabbit Alexa Fluor 488 (1/2000). DAPI in blue stains nuclei.



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Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody - Neural Stem Cell Marker (ab92391)

ICC/IF image of ab92391 stained PC12 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab92391, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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