

Anti-Nestin antibody ab134017

★★★★★ [5 Abreviews](#) [28 References](#) [4 Images](#)

Overview

Product name	Anti-Nestin antibody
Description	Chicken polyclonal to Nestin
Host species	Chicken
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Mouse
Immunogen	Three synthetic peptides, conjugated to KLH, corresponding to regions within Mouse Nestin (NP_057910).
Positive control	e13 mouse brain
General notes	<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 -20°C or -80°C. Avoid freeze / thaw cycle. Store undiluted.
Storage buffer	<p>pH: 7</p> <p>Preservative: 0.02% Sodium azide</p> <p>Constituent: 99% PBS</p>
Purity	Immunogen affinity purified
Purification notes	IgY fractions were purified from the yolks and IgY fractions were then affinity-purified using a peptide column, the concentrations of the eluate adjusted to 300 µg/ml, and the preparation filter-sterilized.
Clonality	Polyclonal
Isotype	IgY

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab134017 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		1/10000 - 1/20000.
IHC-P	★ ★ ★ ★ ★ (1)	1/10000 - 1/20000.
WB		1/20000 - 1/50000. Predicted molecular weight: 177 kDa.

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.

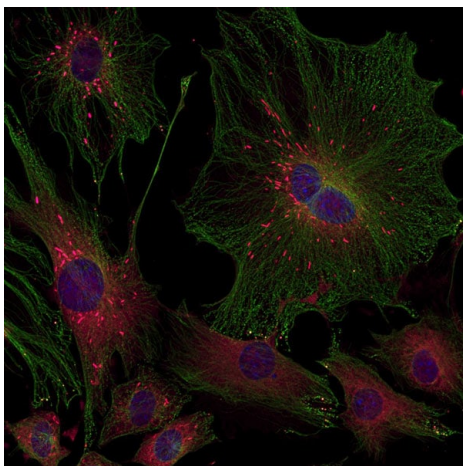
Developmental stage

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

Post-translational modifications

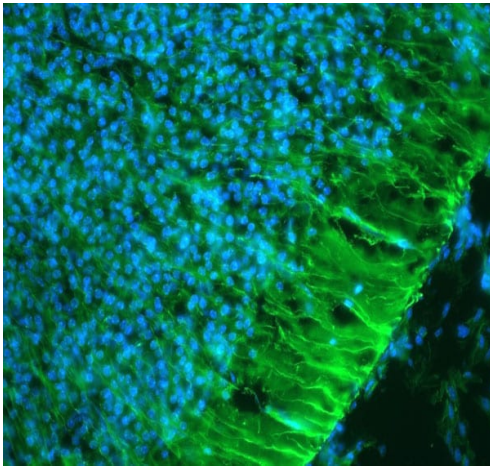
Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.

Images



Immunocytochemistry/Immunofluorescence analysis of 3T3 cells labelling Nestin (green) with ab134017. Cells were fixed with 4% paraformaldehyde. Red - rabbit anti-Beta-Tubulin I, Blue - Hoechst stain for nuclei.

Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody (ab134017)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody (ab134017)

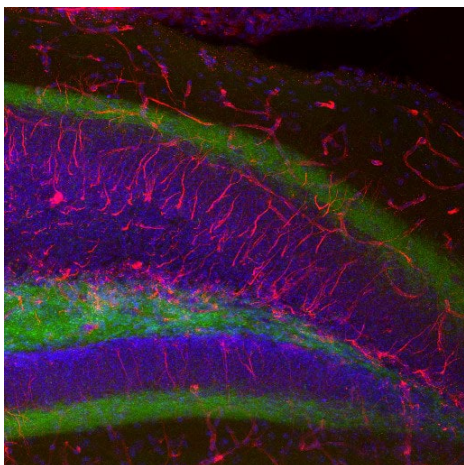
Immunohistochemical analysis of a tissue section through an e13 mouse brain labelling Nestin (green staining) in neural stem cells of the ventricular zone of the CNS with ab134017 at 1/10000 dilution. DAPI (blue staining) allows visualization of nuclei.



Western blot - Anti-Nestin antibody (ab134017)

Anti-Nestin antibody (ab134017) at 1/10000 dilution + neonatal mouse brain

Predicted band size: 177 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody (ab134017)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of adult mouse hippocampus tissue labelling Nestin (red) with ab134017. Tissue was fixed with 10% formalin. Green - rabbit anti-Synaptotagmin, Blue - Hoechst stain for nuclei.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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