




## Product datasheet

# Anti-Nestin antibody - Neural Stem Cell Marker ab7659

★★★★★ [9 Abreviews](#) [17 References](#) [2 Images](#)

### Overview

<b>Product name</b>	Anti-Nestin antibody - Neural Stem Cell Marker
<b>Description</b>	Rabbit polyclonal to Nestin - Neural Stem Cell Marker
<b>Host species</b>	Rabbit
<b>Specificity</b>	Detects a band at 200kDa representing Nestin in MEFs. Denaturing of WB protein lysate causes loss of Nestin immunoreactivity in WB.
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> ICC/IF or IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse <b>Predicted to work with:</b> Rat, Rabbit, Hamster 
<b>Immunogen</b>	Synthetic peptide: ALETESQDSAEPGSEE , corresponding to amino acids 1481-1497 of Human Nestin.  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>General notes</b>	ab7659 has been upgraded from Fast Track status based on data obtained in a new batch of this antibody.  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.  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

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.87% Sodium chloride
<b>Purity</b>	Immunogen affinity purified

<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab7659 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

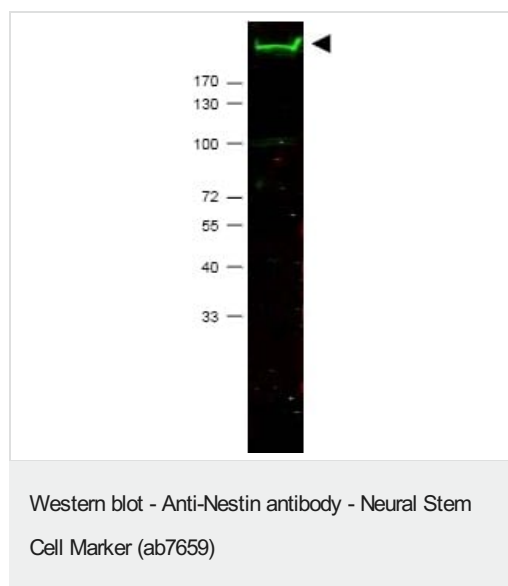
Application	Abreviews	Notes
<b>WB</b>	★★★★★ (1)	1/500 - 1/3000. Detects a band of approximately 200 kDa (predicted molecular weight: 176 kDa). Do not denature WB protein lysate, denaturing results in loss of Nestin specific immunoreactivity (See Abreview).

**Application notes** Is unsuitable for ICC/IF or IHC-P.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	CNS stem cells.
<b>Sequence similarities</b>	Belongs to the intermediate filament family.
<b>Developmental stage</b>	Upon terminal neural differentiation, nestin is down-regulated and replaced by neurofilaments.
<b>Post-translational modifications</b>	Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.

## Images



Anti-Nestin antibody - Neural Stem Cell Marker (ab7659) at 1/2000 dilution + MEF whole cell lysate at 30 µg

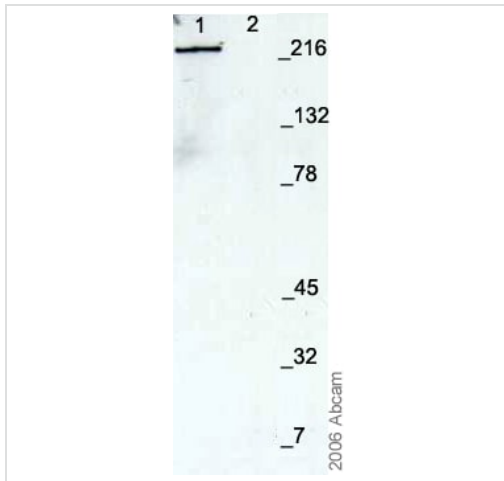
### Secondary

IRDye 800  
conjugated Goat anti-Rabbit IgG [H&L] at 1/10000 dilution

Performed under reducing conditions.

**Predicted band size:** 176 kDa

**Observed band size:** 200 kDa



Western blot - Anti-Nestin antibody - Neural Stem Cell Marker (ab7659)

This image is courtesy of Randal Moldrich, CNRS UMR7637, ESPCI, France

**All lanes :** Anti-Nestin antibody - Neural Stem Cell Marker (ab7659) at 1 µg/ml

**Lane 1 :** Mouse neural precursors whole cell lysate reduced but not denatured

**Lane 2 :** Mouse neural precursors whole cell lysate reduced and denatured

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit IgG HRP at 1/20000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 176 kDa

**Observed band size:** 230 kDa

**Exposure time:** 10 minutes

A slightly higher band obtained than expected, but as predicted in the datasheet. Denaturing of the WB lysate results in a loss of Nestin specific immunoreactivity. NB: Equal protein loading was verified.

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

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