

Product datasheet

Anti-Nestin antibody [196908] ab6320

KO VALIDATED

★★★★★ [5 Abreviews](#) [48 References](#) [2 Images](#)

Overview

Product name	Anti-Nestin antibody [196908]
Description	Mouse monoclonal [196908] to Nestin
Host species	Mouse
Specificity	Based on the result of immunocytochemistry on mouse and rat neural stem cells, this antibody has no reactivity with rodent Nestin. The clone number has been updated from (3k1) to (196908) both clone numbers name the same antibody clone.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Does not react with: Mouse, Rat
Immunogen	Nestin-transfected NS0 cells transfected with a human Nestin fragment aa residues 618-1618.
Positive control	Human neural progenitors and A172 cells.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituents: PBS, 5% Trehalose
Purity	Protein G purified
Clonality	Monoclonal
Clone number	196908

Myeloma	NS0
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab6320 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
WB	★★★★★ (1)	Use at an assay dependent concentration. Predicted molecular weight: 177 kDa.
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

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.

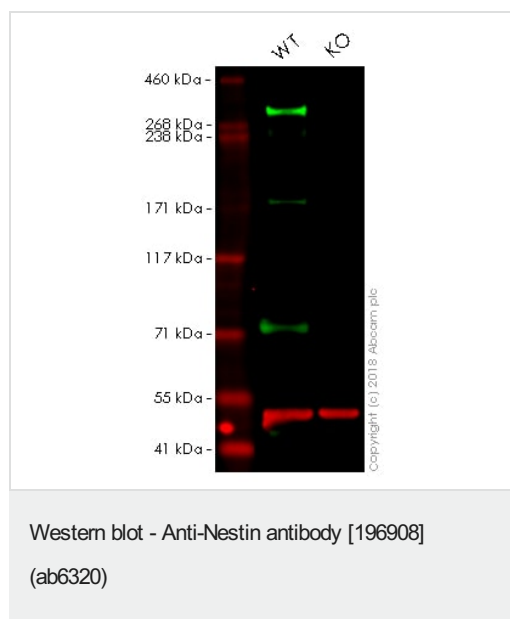
Developmental stage

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



All lanes : Anti-Nestin antibody [196908] (ab6320) at 1 µg

Lane 1 : Wild-type HAP1 whole cell lysate

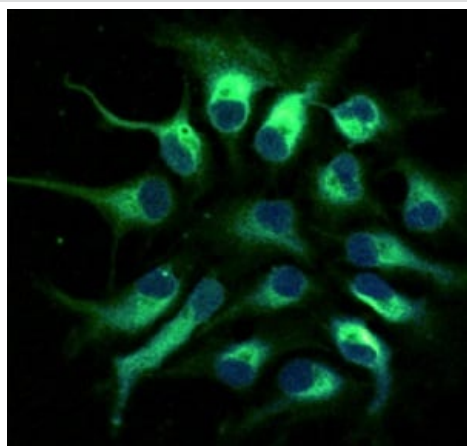
Lane 2 : NES knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 177 kDa

Lanes 1 - 2: Merged signal (red and green). Green - ab6320 observed at 300 kDa. Red - loading control, **ab176560**, observed at 50 kDa.

ab6320 was shown to recognize NES in wild-type HAP1 cells as signal was lost at the expected MW in NES knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and NES knockout samples were subjected to SDS-PAGE. Ab6320 and **ab176560** (Rabbit anti-alpha Tubulin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed **ab216772** and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed **ab216777** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody [196908] (ab6320)

Immunocytochemical analysis of human fetal neural progenitor cells, labeling Nestin with ab6320 (10µg/ml). Immunostaining was for 3 hours at room temperature. Counterstaining with DAPI (blue).

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

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