abcam

Product datasheet

Anti-Nestin antibody [7A3] ab81462

3 Abreviews 14 References 2 Images

Overview

Product name	Anti-Nestin antibody [7A3]
Description	Rat monoclonal [7A3] to Nestin
Host species	Rat
Tested applications	**Suitable for:** ICC/IF **Unsuitable for:** WB
Species reactivity	**Reacts with:** Mouse
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Neural progenitor cells from mouse fetal brain.
General notes	ab81462 is very useful for immunostaining of mouse embryonic brain. It has very low background in immunostaining using mouse tissues and is also useful for doubleb staining with mouse and rabbit antibodies. 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

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6 Constituents: 50% Glycerol, PBS
Purity	Ion Exchange Chromatography
Purification notes	The antibody was produced from the hybridoma cultured in serum free medium and purified under mild conditions by propriety chromatography processes. It is filter sterilized.
Primary antibody notes	ab81462 is very useful for immunostaining of mouse embryonic brain. It has very low background

	in immunostaining using mouse tissues and is also useful for doubleb staining with mouse and rabbit antibodies.
Clonality	Monoclonal
Clone number	7A3
Isotype	IgG2b
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab81462 in the following tested applications.

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

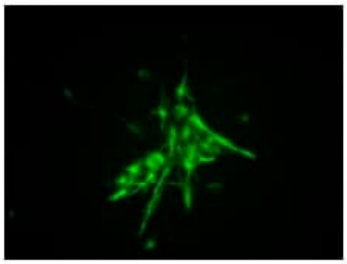
Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

Application notes Is unsuitable for WB.

Target

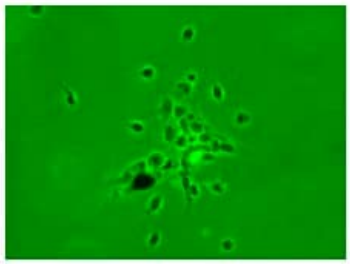
Function	Required for brain and eye development. Promotes the disassembly of phosphorylated vimentin intermediate filaments (IF) during mitosis and may play a role in the trafficking and distribution of IF proteins and other cellular factors to daughter cells during progenitor cell division. Required 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 [7A3] (ab81462)

Primary culture of neural progenitor cells from mouse fetal brain stained with ab81462.



Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody [7A3] (ab81462)

Primary culture of neural progenitor cells from mouse fetal brain, without staining (bright field image).

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

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