


Anti-Nestin antibody [SP103] ab105389

KO 評価済 リコンビナント RabMAb

★★★★★ 9 Abreviews 59 References 画像数 18

製品の概要

製品名	Anti-Nestin antibody [SP103]
製品の詳細	Rabbit monoclonal [SP103] to Nestin
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, IHC-Fr, WB, IHC-P, Flow Cyt (Intra)
種交差性	交差種: Human 交差が予測される動物種: Dog 
免疫原	Synthetic peptide within Human Nestin aa 1600 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P48681
ポジティブ・コントロール	IHC-P: Human kidney, ovary, cervix, breast, colon, endometrium, cerebellum, lung, prostate, skin and human melanoma tissue. WB: HeLa cell lysate. Flow Cyt-Intra: SH-SY5Y cells. ICC/IF: SKNSH cells. IHC-Fr: Frozen human kidney tissue sections
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
精製度	Protein A/G purified

特記事項(精製)	Purified from TCS by protein A/G.
ポリ/モノ	モノクローナル
クローン名	SP103
アイソタイプ	IgG

アプリケーション

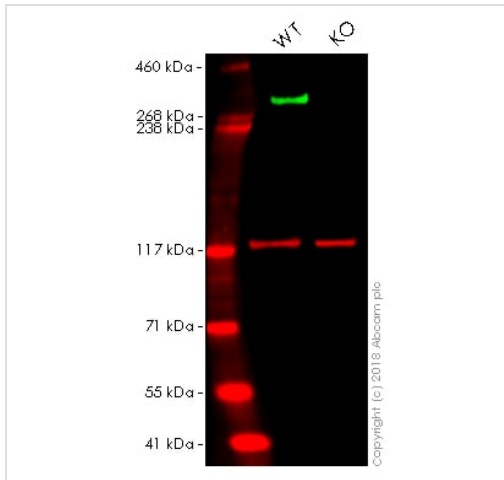
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab105389の使用に適用されず**
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF	★★★★★ (2)	1/200.
IHC-Fr		Use a concentration of 5 µg/ml.
WB	★★★★★ (3)	1/100. Predicted molecular weight: 177 kDa.
IHC-P	★★★★★ (4)	1/100. Antigen retrieval: Boil tissue section in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at room temperature for 20 min.
Flow Cyt (Intra)		1/50. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能	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.
組織特異性	CNS stem cells.
配列類似性	Belongs to the intermediate filament family.
発生段階	Upon terminal neural differentiation, nestin is down-regulated and replaced by neurofilaments.
翻訳後修飾	Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.

画像



Western blot - Anti-Nestin antibody [SP103] (ab105389)

All lanes : Anti-Nestin antibody [SP103] (ab105389) at 1/100 dilution

Lane 1 : Wild-type HAP1 whole cell lysate

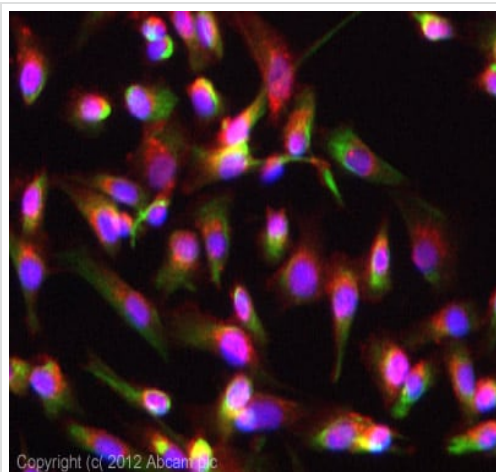
Lane 2 : NES knockout HAP1 whole cell lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 177 kDa

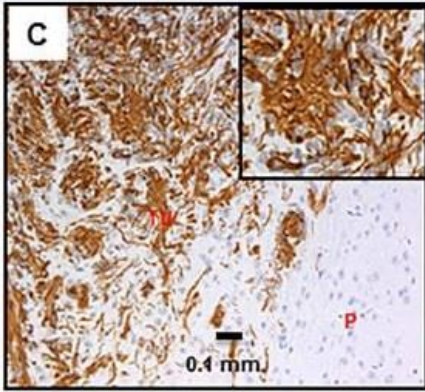
Lanes 1 -2: Merged signal (red and green). Green - ab105389 observed at 300 kDa. Red - loading control, **ab18058**, observed at 117 kDa.

ab105389 was shown to specifically react with NES in wild-type HAP1 cells as signal was lost in NES knockout cells. Wild-type and NES knockout samples were subjected to SDS-PAGE. Ab105389 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/100 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Nestin antibody [SP103] (ab105389)

ICC/IF image of ab105389 stained SKNSH cells. The cells were 4% formaldehyde 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 (ab105389, 1/200 dilution) overnight at +4°C. The secondary antibody (green) was **ab96899**, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103]

(ab105389)

Malchenko, S. et al PLoS One. 2017 Mar 1;12(3):e0173106. doi: 10.1371/journal.pone.0173106. eCollection 2017 Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>

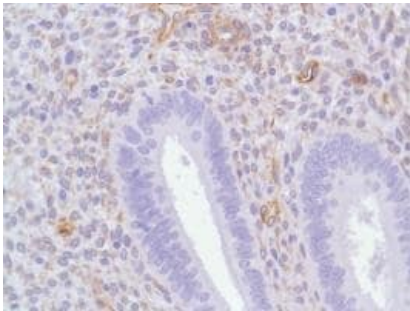
BTIC markers in our CNS-PNET model tumors

Formalin-fixed, paraffin-embedded mouse primitive neural ectodermal tumor tissue was stained for Nestin using ab105389 at 1/30 dilution in immunohistochemical analysis.

Insert x20 magnification.

TU-tumor; P-parenchyma; V-ventricle; CP-choroid plexus

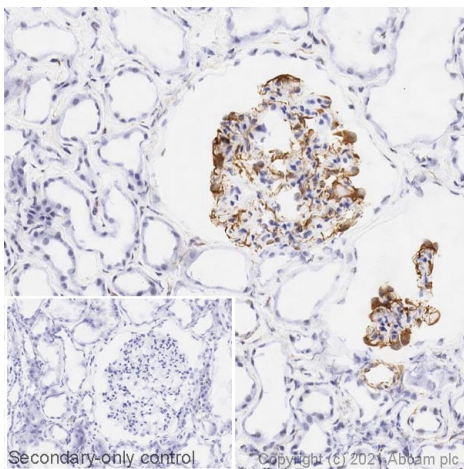
(From Figure 3C of Malchenko et al)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103]

(ab105389)

Formalin-fixed, paraffin-embedded human endometrium tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.

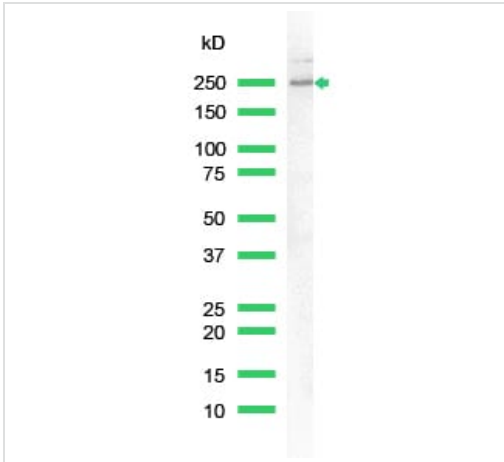


Immunohistochemistry (Frozen sections) - Anti-Nestin antibody [SP103] (ab105389)

IHC image of Nestin staining in a section of frozen normal human kidney* performed on a Leica BOND™ system using the standard protocol. The section was fixed in 10% paraformaldehyde (10 min) prior to staining. The section was incubated with ab105389, 5ug/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset secondary-only control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

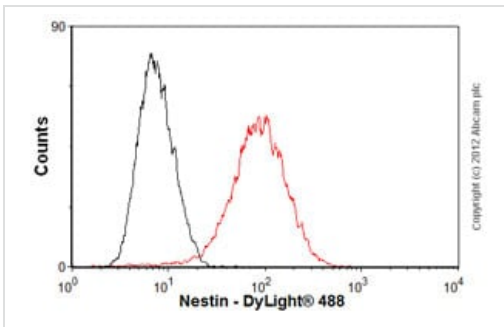
*Tissue obtained from the Human Research Tissue Bank,
supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-Nestin antibody [SP103]
(ab105389)

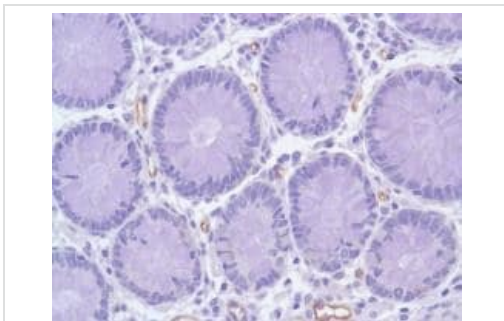
Anti-Nestin antibody [SP103] (ab105389) at 1/100 dilution + HeLa
cell lysate

Predicted band size: 177 kDa



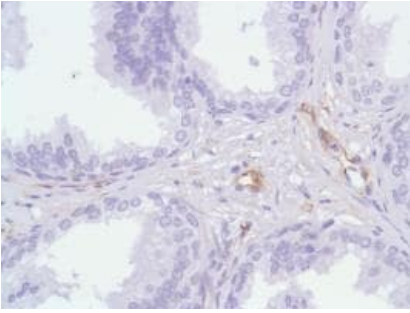
Flow Cytometry (Intracellular) - Anti-Nestin antibody
[SP103] (ab105389)

Overlay histogram showing SH-SY5Y cells stained with ab105389
(red line). The cells were fixed with 4% paraformaldehyde (10 min)
and then permeabilized with 0.1% PBS-Tween for 20 min. The cells
were then incubated in 1x PBS / 10% normal goat serum / 0.3M
glycine to block non-specific protein-protein interactions followed by
the antibody (ab105389, 1/50 dilution) for 30 min at 22°C. The
secondary antibody used was DyLight® 488 goat anti-rabbit IgG
(H+L) ([ab96899](#)) at 1/500 dilution for 30 min at 22°C. Isotype
control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶
cells) used under the same conditions. Acquisition of >5,000 events
was performed.



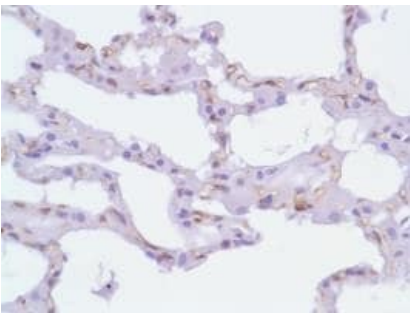
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Nestin antibody [SP103]
(ab105389)

Formalin-fixed, paraffin-embedded human colon tissue stained for
Nestin using ab105389 at 1/100 dilution in immunohistochemical
analysis.



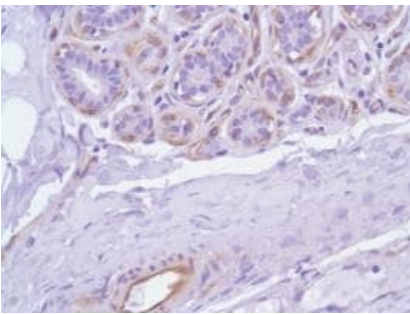
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human prostate tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



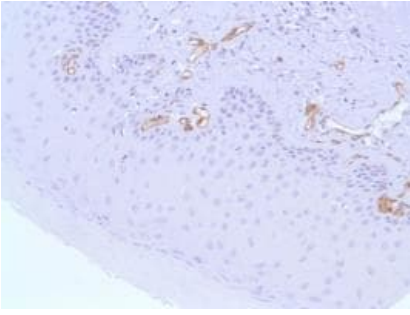
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human lung tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



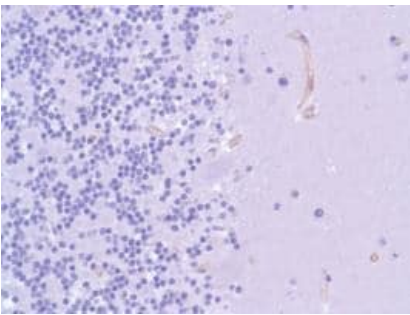
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human breast tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



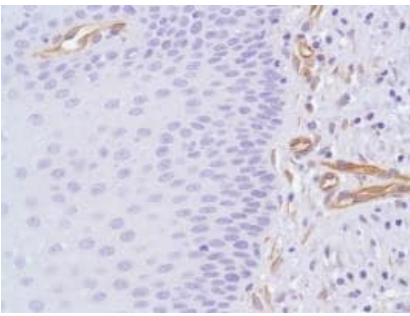
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human skin tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



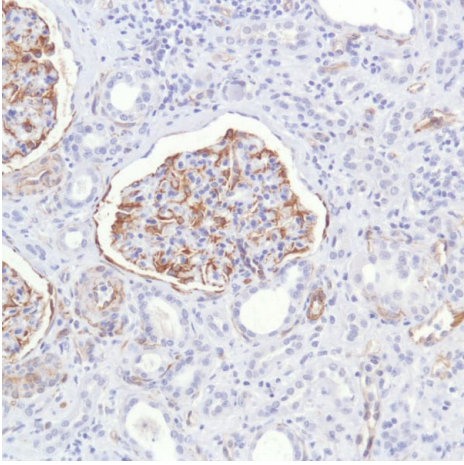
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human cerebellum tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



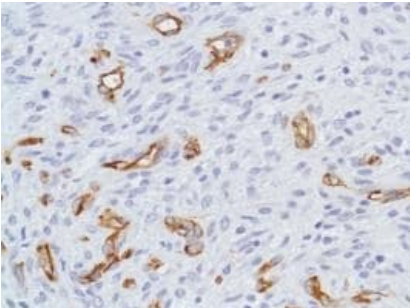
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

Formalin-fixed, paraffin-embedded human cervix tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.



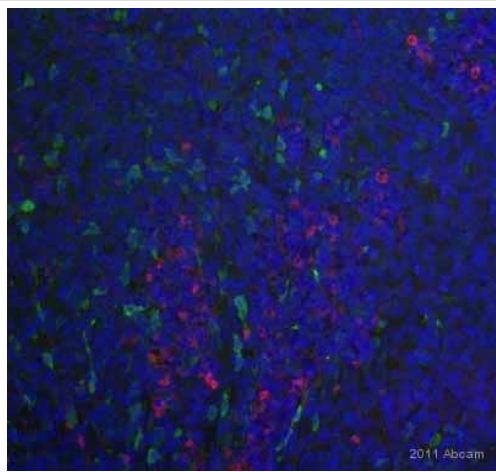
Formalin-fixed, paraffin-embedded human kidney tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)



Formalin-fixed, paraffin-embedded human ovary tissue stained for Nestin using ab105389 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Nestin antibody [SP103] (ab105389)

This image is courtesy of Hongwei Shao by Abreview.

ab105389 staining Nestin in human melanoma tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections).

Tissue was fixed in formaldehyde and a heat mediated antigen retrieval step was performed using Tris EDTA pH 9.0. Samples were then permeabilized using 0.25% Triton X-100, blocked, then incubated with ab105389 at a 1/100 dilution for 18 hours at 4°C. The secondary used was an Alexa-Fluor 594 (red) conjugated donkey anti-rabbit polyclonal used at a 1/100 dilution. (Green) tumor cells, (blue) DAPI.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-Nestin antibody [SP103] (ab105389)

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