

Nestin Monoclonal Antibody

Catalog No: #42024

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Nestin Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Isotype	IgG1
Purification	protein G purified
Applications	ELISA, WB, IHC, IF, FC
Species Reactivity	Hu
Specificity	specific for Human Nestin denatured and native forms
Immunogen Description	Recombinant nestin Protein
Target Name	Nestin
Other Names	NES, Nbla00170, Nestin
Accession No.	Swiss-Prot#: P48681
Uniprot	P48681
GeneID	10763;
Concentration	0.3mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

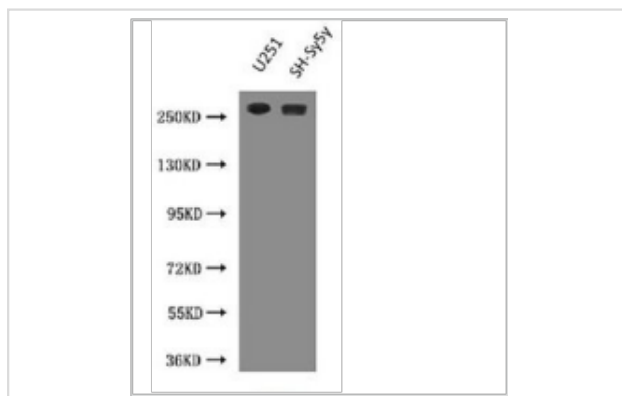
Application Details

WB:1:500-1:5000

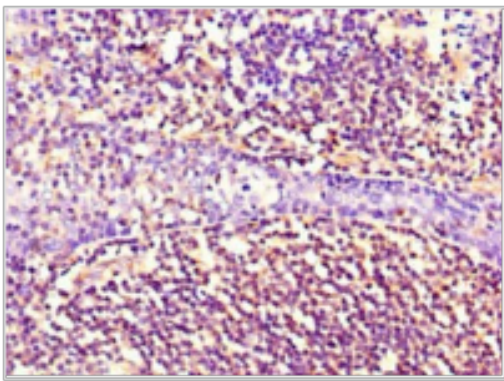
IHC:1:50-1:500

IF:1:50-1:200

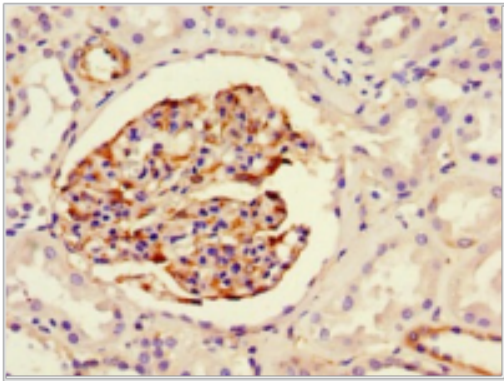
Images



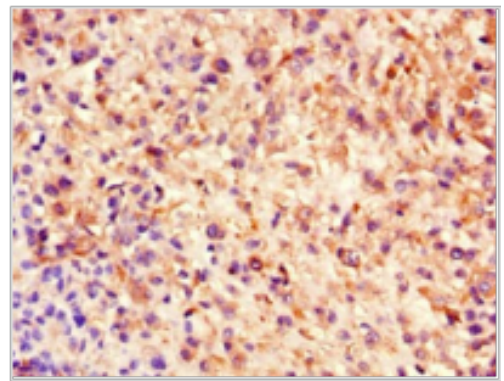
Western Blot Positive WB detected in: U251 whole cell lysate, SH-SY5Y whole cell lysate
 All lanes: NES antibody at 3µg/ml
 Secondary Goat polyclonal to Mouse IgG at 1/10000 dilution
 Predicted band size: 178 kDa Observed band size: 260 kDa



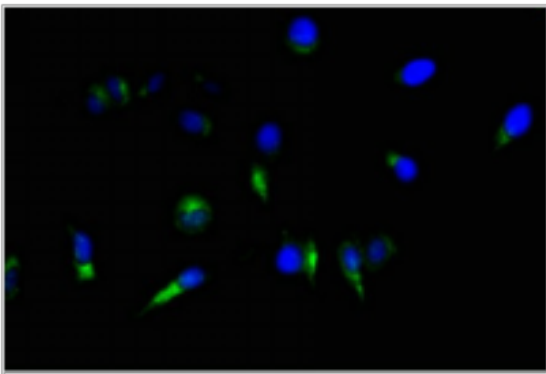
Immunohistochemistry of paraffin-embedded human tonsil tissue using 42024 at dilution of 1:100



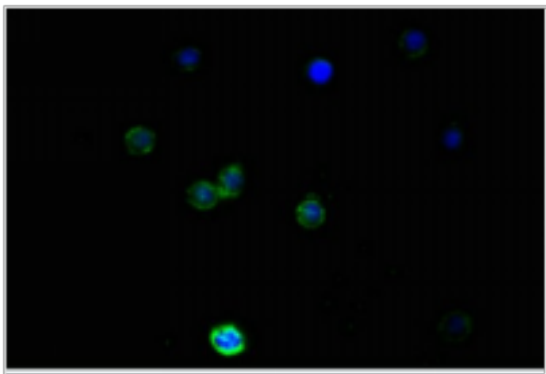
Immunohistochemistry of paraffin-embedded human kidney tissue using 42024 at dilution of 1:100



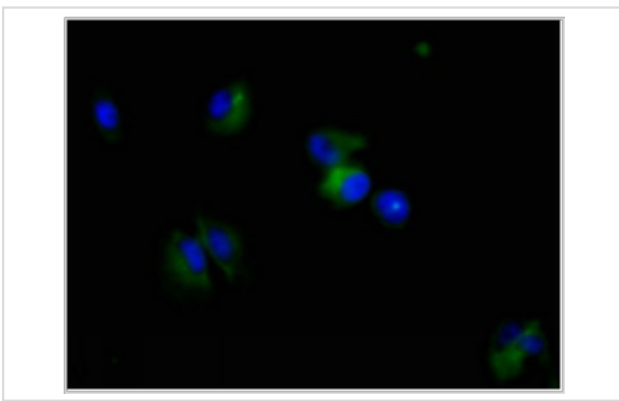
Immunohistochemistry of paraffin-embedded human melanoma using 42024 at dilution of 1:100



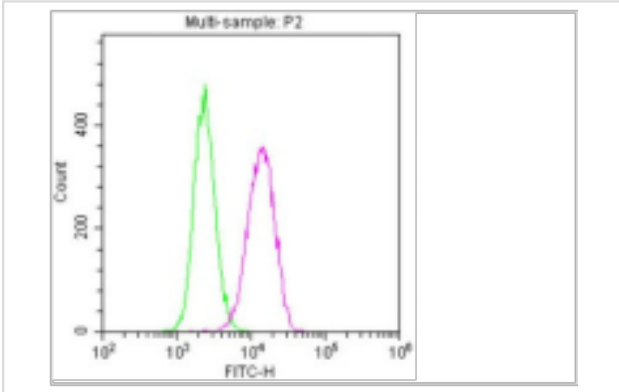
Immunofluorescent analysis of HeLa cells using 42024 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



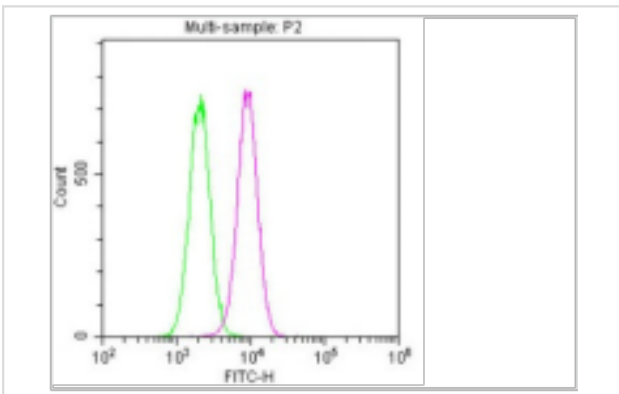
Immunofluorescent analysis of PC-3 cells using 42024 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of U251 cells using 42024 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Overlay histogram showing U251 cells stained with 42024 (red line). The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein- protein interactions followed by the antibody (10µg/1*10⁶cells) for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was mouse IgG1 (10µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.



Overlay histogram showing Hela cells stained with 42024 (red line). The cells were fixed with 70% Ethylalcohol (18h) and then permeabilized with 0.3% Triton X-100 for 2 min. The cells were then incubated in 1x PBS /10% normal goat serum to block non-specific protein- protein interactions followed by the antibody (10µg/1*10⁶cells) for 1 h at 4°C. The secondary antibody used was FITC goat anti-mouse IgG(H+L) at 1/200 dilution for 1 h at 4°C. Isotype control antibody (green line) was mouse IgG1 (10µg/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

Background

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.

References

[1] Dahlstrand J., McKay R.D.G., Zimmerman L.B., Lendahl U.Characterization of the human nestin gene reveals a close evolutionary relationship to neurofilaments.J. Cell Sci.1992.103;589-597.[2]Gregory S.G., Barlow K.F., McLay K.E., Kaul R., Swarbreck D.,

Note: This product is for in vitro research use only