

## Product Datasheet

### Nestin Antibody (S1409) (orb1931833)

<b>Catalog Number</b>	orb1931833
<b>Category</b>	Antibodies
<b>Description</b>	Affinity Purified Rabbit Polyclonal Antibody (Pab)
<b>Target</b>	NES
<b>Clonality</b>	Polyclonal
<b>Species/Host</b>	Rabbit
<b>Isotype</b>	Rabbit IgG
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Form/Appearance</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Immunogen</b>	This Nestin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1389-1416 amino acids from human Nestin. Antigen Region: 1389-1416 aa.
<b>UniProt ID</b>	<b>P48681</b>
<b>MW</b>	177439 Da
<b>Tested applications</b>	FC, IF, IHC-P, WB
<b>Dilution range</b>	IF - 1:25, WB - 1:2000, IHC-P - 1:25, FC - 1:25

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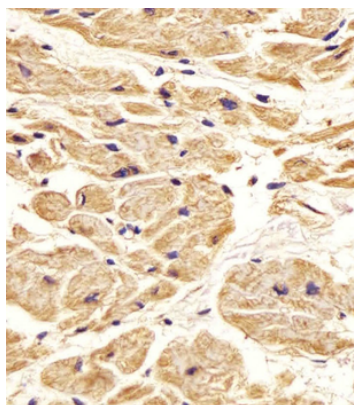
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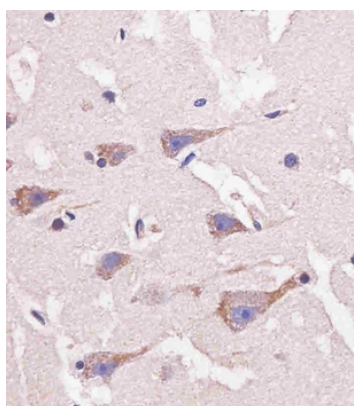
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<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles
<b>Note</b>	For research use only
<b>NCBI</b>	<b>NP_006608.1</b>
<b>Expiration Date</b>	12 months from date of receipt.



Staining Nestin in Human heart tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Staining Nestin in human brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

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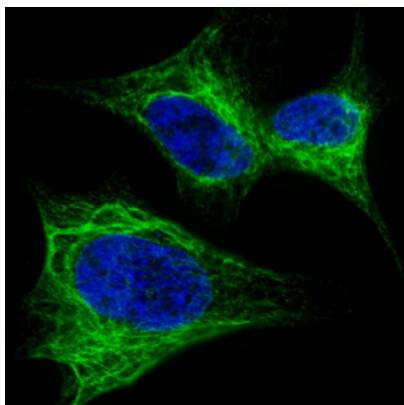
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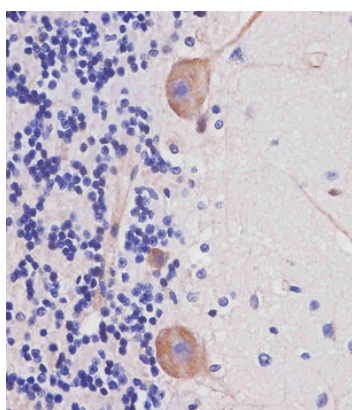
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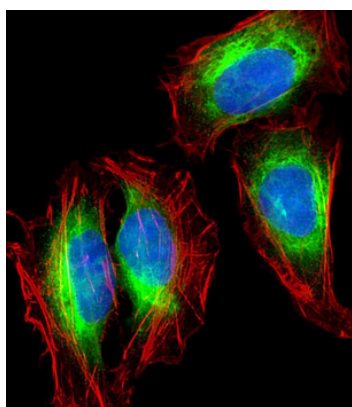
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Fluorescent confocal image of SH-SY5Y cells stained with Nestin (S1409) antibody. SH-SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with Nestin (S1409) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1 h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min).



Staining Nestin in human cerebellum tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-2 OS (human bone osteosarcoma cell line) cells labeling Nestin at 1/25 dilution, followed by Dylight 488-conjugated goat anti-rabbit IgG secondary antibody at 1/200 dilution (green).

Immunofluorescence image showing cytoskeleton staining on U-2 OS cell line. Cytoplasmic actin is detected with Dylight 554 Phalloidin at 1/100 dilution (red). The nuclear counter stain is DAPI (blue).

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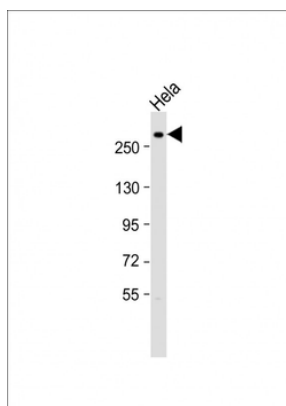
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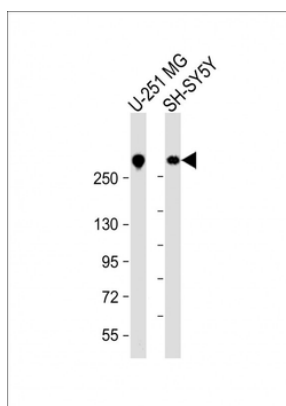
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Anti-Nestin Antibody (S1409) at 1:2000 dilution + HeLa whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 177 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes: Anti-Nestin Antibody (S1409) at 1:2000 dilution. Lane 1: U-251 MG whole cell lysate. Lane 2: SH-SY5Y whole cell lysate. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 177 kDa. Blocking/Dilution buffer: 5% NFDM/TBST.

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