

# Nestin Monoclonal Antibody (10C2)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	10C2
Conjugate	Unconjugated
Immunogen	Human nestin protein corresponding to residues 1464-1614
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage Conditions	-20°C
RRID	AB_2536821

Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	1:100	1 Publication
Immunofluorescence (IF)	✓	1:100	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:20-1:100	2 Publications
Immunohistochemistry (IHC)	-	1:20	1 Publication
Flow Cytometry (Flow)	✓	1 µg/test	
Western Blot (WB)	✓	1:500 - 1:1500	

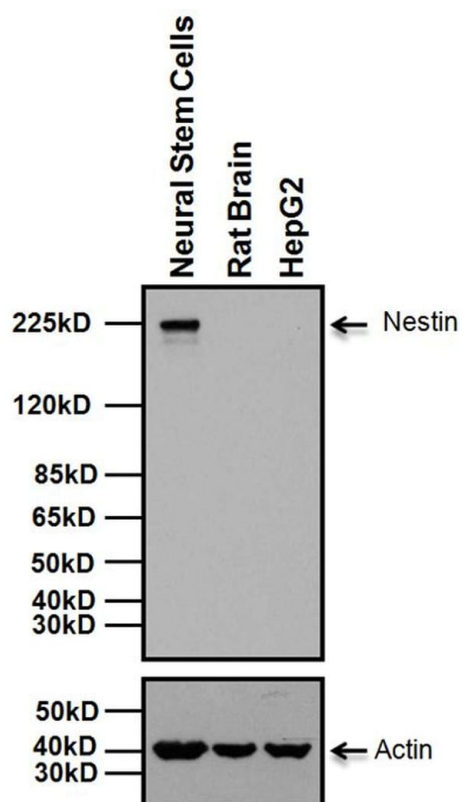
## Product Specific Information

MA1-110 has been successfully utilized in Western Blot, immunocytochemistry, flow cytometry, and immunofluorescence applications in human samples. MA1-110 also acts a neuronal stem cell marker and detects a band in Western blot at ~250 kDa.

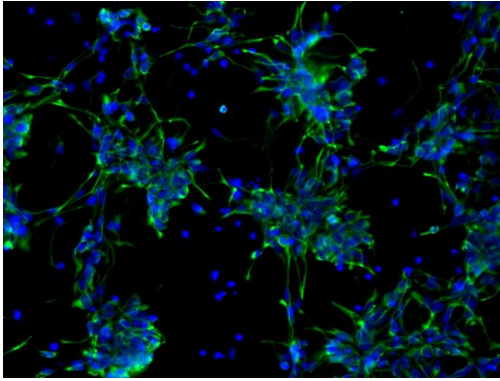
## Advanced Verification Data

### Nestin Antibody (MA1-110)

The specificity of anti-Nestin monoclonal antibody (Product # MA1-110) was demonstrated in western blot analysis by the detection of endogenous Nestin protein expression in human neural stem cells, but not in negative control line HepG2 which is not known to express Nestin protein. Relative expression validation info.

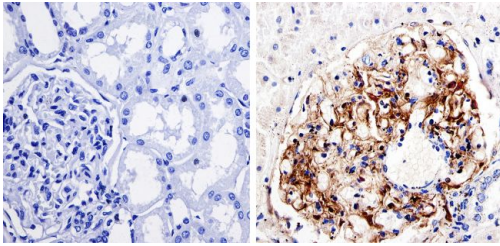


## Product Images For Nestin Monoclonal Antibody (10C2)



### Nestin Antibody (MA1-110) in IF

Immunofluorescent analysis of Nestin (green) in human neural stem cells derived from PD-3 iPSCs using Gibco® PSC Neural Induction Medium (Product # A1647801). The cells were fixed and permeabilized using Image-IT® Fixation /Permeabilization kit (Product # R37602), and blocked with the including blocking buffer for one hour at room temperature. Cells were stained with a Nestin monoclonal antibody (Product # MA1-110) at a dilution of 1:100 in blocking buffer for 3 hours at room temperature, and then incubated with a DyLight488-conjugated goat anti-mouse IgG secondary antibody (Product # 35502) at a dilution of 1:250 for 1 hour at room temperature. Nucleus DNA (blue) was stained with DAPI (Product # D1306). Images were taken on an EVOS® FLoid® Cell Imaging Station at 10X magnification.



### Nestin Antibody (MA1-110) in IHC

Immunohistochemistry was performed on human kidney tissue. To expose target protein, antigen was retrieved using 10mM sodium citrate followed by microwave treatment for 8-15 minutes. Endogenous peroxidases were blocked in 3% H2O2-methanol for 15 minutes and tissues were blocked in 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a nestin Rabbit polyclonal antibody (Product # MA1-110) at a dilution of 1:100 overnight in a humidified chamber. Tissues were washed in PBST and detection was performed using a secondary antibody conjugated to HRP. DAB staining buffer was applied and tissues were counterstained with hematoxylin and prepped for mounting. Images were taken at 40X magnification.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 6 References

### Immunocytochemistry (1)

Frontiers in molecular neuroscience

#### Comparison of *in vitro* Neuronal Differentiation Capacity Between Mouse Epiblast Stem Cells Derived From Nuclear Transfer and Naturally Fertilized Embryos.

Authors: Li T,Zheng Y,Li Y,Ye D

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2018

### Immunofluorescence (2)

Frontiers in molecular neuroscience

#### Comparison of *in vitro* Neuronal Differentiation Capacity Between Mouse Epiblast Stem Cells Derived From Nuclear Transfer and Naturally Fertilized Embryos.

Authors: Li T,Zheng Y,Li Y,Ye D

**Species**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
Not Cited

**Year**  
2018

Journal of pineal research

#### Melatonin enhances neural stem cell differentiation and engraftment by increasing mitochondrial function.

"Published figure using Nestin monoclonal antibody (Product # MA1-110) in Immunofluorescence"

Authors: Mendivil-Perez M,Soto-Mercado V,Guerra-Librero A,Fernandez-Gil BI,Florida J,Shen YQ,Tejada MA,Capilla-Gonzalez V,Rusanova I,Garcia-Verdugo JM,Acuña-Castroviejo D,López LC,Velez-Pardo C,Jimenez-Del-Rio M,Ferrer JM,Escames G

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

### Immunohistochemistry (Paraffin) (2)

Human pathology

#### Comparative immunomorphology of testicular Sertoli and sertoliform tumors.

"MA1110 was used in immunohistochemistry - paraffin section to develop methods to distinguish Sertoli cell tumors from sertoliform tumors"

Authors: Mesa H,Gilles S,Datta MW,Murugan P,Larson W,Dachel S,Manivel JC

**Species**  
Human

**Dilution**  
1:300

**Year**  
2017

### More applications with references on thermofisher.com

#### IHC (1)

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