

Nestin Monoclonal Antibody (10C2)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	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	Publications
Western Blot (WB)	1:500-1:1,500	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:100	5 Publications
Flow Cytometry (Flow)	1 µg/test	-

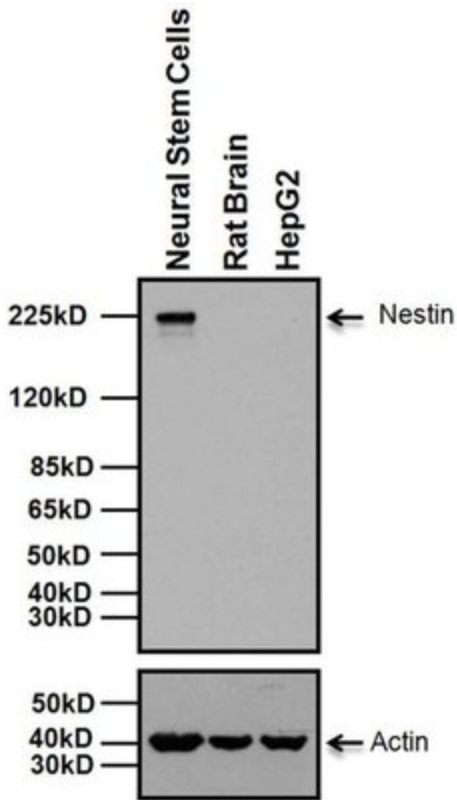
Product Specific Information

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.

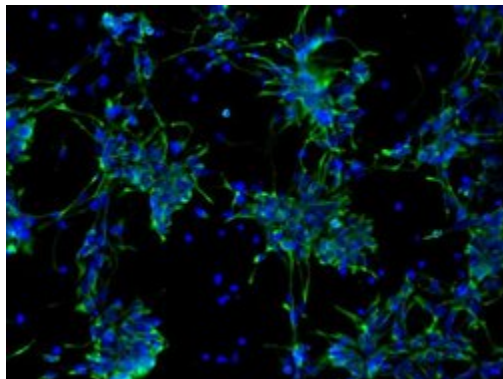
Advanced Verification Data

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.

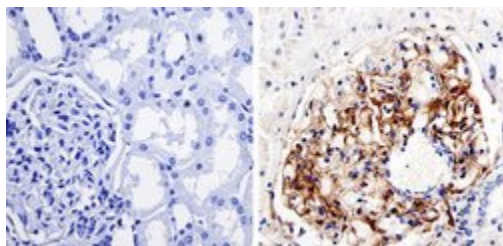


Product Images For Nestin Monoclonal Antibody (10C2)



Nestin Antibody (MA1-110) in ICC/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)

Immunohistochemistry (1)

Histochemistry and cell biology

Androgen receptors and gender-specific distribution of alkaline phosphatase in human thyroid cartilage.

"MA1-110 was used in immunohistochemistry to study gender differences in the localization of androgen receptors and alkaline phosphatase in human thyroid cartilage"

Authors: Claassen H, Mönig H, Sel S, Werner JA, Paulsen F

Species
Human

Dilution
1:20

Year
2006

Immunohistochemistry (Paraffin) (2)

PloS one

Embryonic stem cells markers SOX2, OCT4 and Nanog expression and their correlations with epithelial-mesenchymal transition in nasopharyngeal carcinoma.

"MA1-110 was used in immunohistochemistry - paraffin section to assess the expression and prognostic impact of embryonic stem cell markers in nasopharyngeal carcinoma patients"

Authors: Luo W, Li S, Peng B, Ye Y, Deng X, Yao K

Species
Not Applicable

Dilution
1:25

Year
2013

Human pathology

Comparative immunomorphology of testicular Sertoli and sertoliiform tumors.

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

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

Species
Human

Dilution
1:300

Year
2017

Immunocytochemistry (5)

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, Florido 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

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.