

Mouse anti-Human Nestin Monoclonal Antibody | anti-NES antibody

Mouse anti Nestin

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77492	Mouse	Human	Western Blot, Immunohistochemistry, Immunohistochemistry, Immunocytochemistry

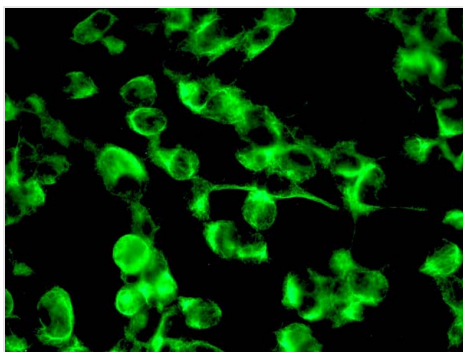
PRODUCT SYNONYMS

Nestin; Monoclonal Antibody; Mouse anti Nestin; anti-NES antibody

PRODUCT SPECIFICATIONS

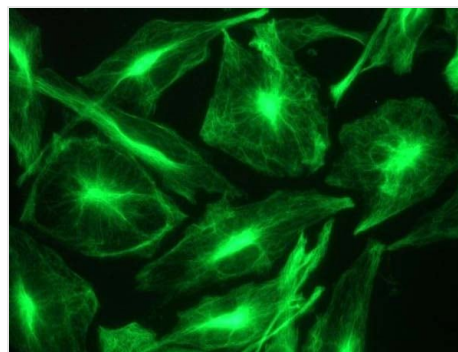
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	10C2
Specificity	RNF406 is suitable for immunoblotting and immunohistochemistry on frozen and paraffin-embedded tissues.
Form/Format	Each vial contains 1 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.
Applicable Applications for anti-NES antibody	WB (Western Blot), IHC (Immunohistochemistry), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Source Note	Nestin (clone 10C2) is a monoclonal antibody derived by traditional hybridoma technology. A 150-amino-acid fragment from the cloned Human nestin was conjugated to glutathione S-transferase and used as an immunogen.
Preparation and Storage	Can be stored at -20 degree C to -70 degree C for long term storage. Once thawed, store at 4 degree C, do not refreeze.

IMAGES



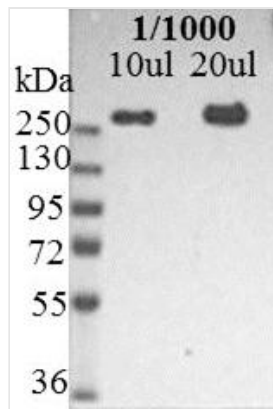
Application Data

Figure 3 Immunostaining of intracellular nestin filaments in cultured SH-SY-5Y neuronal cells (1:100 dilution).



Application Data

Figure 2 Immunostaining of intracellular nestin filaments in U251 cells



IB (Immunoblot)

Figure 1 Immunoblotting of U251-cell lysate showing reactivity with nestin

ADDITIONAL INFORMATION

Related Product Information for anti-NES antibody	Nestin is a Class IV intermediate filament protein abundantly produced in the developing central nervous system (CNS) and in early embryonic neuroepithelial stem cells. This cytoskeletal protein has been widely used as a predominant marker for stem/progenitor cells, glioma cells, and tumor endothelial cells. Also, it is a superior angiogenic marker to evaluate neovascularity of endothelial cells in tumors. These highly specific antibodies to Human nestin can aid in characterizing progenitor cells differentiating into distinct lineages, in enhancing the therapeutic potential of Human neural stem/progenitor cells in the treatment of CNS diseases or injury, and in identifying neuroepithelial tumor cells.
Product Categories/Family for anti-NES antibody	Cytoskeletal ; Cardiovascular ; Cell differentiation ; Cytoskeleton ; Neurobiology ; Stem cell research
References	Messam, C., Hou, J. and Major, E.O. (2000). Co-expression of nestin in neural and glial cells in the developing Human CNS defined by a Human specific anti-nestin antibody. <i>Exp Neurol.</i> 161, 585-96. Messam, C., Hou, J., Berman, J.W., and Major, E.O. (2002) Analysis of the temporal expression of nestin in Human fetal brain derived neuronal and glial progenitor cells. <i>Brain Res Dev Brain Res.</i> 134, 87-92. Hou, Y.Y., et al. (2006). Schwannoma of the gastrointestinal tract: a clinicopathological, immunohistochemical and ultrastructural study of 33 cases. <i>Histopathology</i> 48, 536-45. Mokry, J., Pudil, R., Ehrmann, J., Cizkova, D., Osterreicher, J., Filip, S. and Kolar, Z. (2008). Re-expression of nestin in the myocardium of postinfarcted patients. <i>Virchows Arch</i> 453, 33-41. Corsino, P.E., et al. (2008). Mammary tumors initiated by constitutive Cdk2 activation contain an invasive basal-like component. <i>Neoplasia</i> 10, 1240-52. Murphy, A.J., Viero, S., Ho, M. and Thorner, P.S. (2009). Diagnostic utility of nestin expression in pediatric tumors in the region of the kidney. <i>Appl Immunohistochem Mol Morphol.</i> 17, 517-23. Sellheyer, K. and Krah, D. (2010). Spatiotemporal expression pattern of neuroepithelial stem cell marker nestin suggests a role in dermal homeostasis, neovasculogenesis, and tumor stroma development: a study on embryonic and adult Human skin. <i>J. Am. Acad. Dermatol.</i> 63, 93-113. Elamin, M.H., et al. (2010). Curcumin inhibits the Sonic Hedgehog signaling pathway and triggers apoptosis in medulloblastoma cells. <i>Mol. Carcinog.</i> 49, 302-14. Popescu, L.M., et al. (2010). Telocytes in Human epicardium. <i>J. Cell. Mol. Med.</i> 14, 2085-93. Sellheyer, K. and Krah, D. (2011). Does the peritumoral stroma of basal cell carcinoma recapitulate the follicular connective tissue sheath? <i>J. Cutan. Pathol.</i> 38, 551-9.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38176300
NCBI GeneID	10763
NCBI Accession #	NP_006608.1
NCBI GenBank Nucleotide #	NM_006617.1
UniProt Accession #	P48681 ; O00552 ; Q3LIF5 ; Q5SYZ6 ; Q05BW3 ; Q2YDX4 ; Q9H6U9
Molecular Weight	177,439 Da
NCBI Official Full Name	nestin

NCBI Official Synonym Full Names	nestin
NCBI Official Symbol	NES
NCBI Official Synonym Symbols	FLJ21841; Nbla00170
NCBI Protein Information	nestin; OTTHUMP00000032198
UniProt Protein Name	Nestin
UniProt Gene Name	NES
UniProt Entry Name	NEST_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/nestin-antibody-clone-10c2-western-blot-immunohistochemistry-immunohistochemistry-immunocytochemistry-elisa/77492>