

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

Nestin (Cancer Stem Cell Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214883	Mouse	Human	Immunohistochemistry

PRODUCT SYNONYMS

Nestin; Monoclonal Antibody; Nestin (Cancer Stem Cell Marker); ESTM 46; FLJ21841; Intermediate filament protein; Nbla00170; nes; anti-NES antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Clone Number	NES/2911
Specificity	Nestin is a major intermediate filament (IF) protein of embryonic central nervous system progenitor cells. It is also a component of the dynamic IF network during muscle development, where it polymerizes with Desmin and Vimentin. Nestin co-assembles with Vimentin or -internexin and forms heterodimer coiled-coil molecules which then further assemble into 10 nml IFs. Deletion of the IF consensus rod domain in nestin alters nestin localization in CNS precursor cells and radial glial cells in vivo. Nestin is a marker for neuroepithelial stem cells, glioma cells and tumor endothelial cells during rapid growth. During axon elongation of differentiation neurons, nestin localizes to the growth cones and may play a role in growth cone guidance. In the rat adrenal gland, nestin is expressed by the zona fasciculata and the zona reticularis. Nestin is also expressed by dermatomal cells and by myoblasts during the earliest stages of myogenesis.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	1621
Applicable Applications for anti-NES antibody	IHC (Immunohistochemistry)
Positive Control	Human kidney, ovary, cervix, breast, colon, endometrium, cerebellum, lung, prostate, skin and human melanoma tissue. HeLa cell lysate. SH-SY5Y cells.
Immunogen	Recombinant human NES protein fragment around aa 698-844 (exact sequence is proprietary)
Cellular Localization	Cytoplasm and membrane.
Hu-chromosome Location	1q23.1
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Nestin Mouse Monoclonal Antibody (NES/2911). Confirmation of Purity and Integrity of Antibody.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Nestin Mouse Monoclonal Antibody (NES/2911).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Nestin Mouse Monoclonal Antibody (NES/2911).

ADDITIONAL INFORMATION

References	1. Yamahatsu, K., et al. (2012). International Journal of Oncology, 40, 1345-1357. 2. Zhang Y, et al. Nat Commun. 2018 Sep 6;9(1):3613
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NCBI AND UNIPROT INFORMATION

NCBI GI #	146345464
NCBI GeneID	10763
UniProt Accession #	P48681
Molecular Weight	190-200kDa
NCBI Official Full Name	Nestin
NCBI Official Synonym Full Names	nestin
NCBI Official Symbol	NES
NCBI Official Synonym Symbols	Nbla00170
NCBI Protein Information	nestin
UniProt Protein Name	Nestin
UniProt Gene Name	NES
UniProt Entry Name	NEST_HUMAN

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