Nestin (Cancer Stem Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone NES/2911]

Catalog No	Format	Size
10763-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
10763-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
10763-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

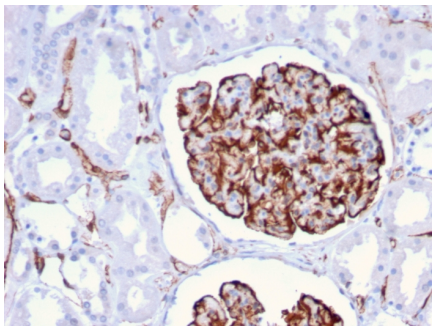
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

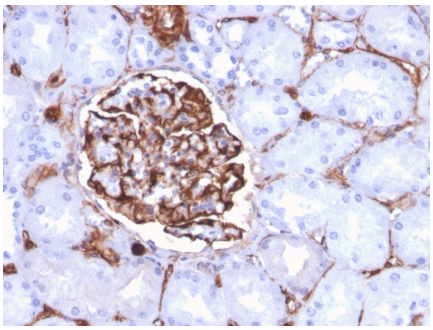
Clone	NES/2911
Gene Name	NES
Immunogen	Recombinant fragment (around aa 600-900) of human NES protein (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	190-200kDa
Cellular Localization	Cytoplasm
Species Reactivity	Human
Positive Control	Human kidney, breast, testis or cerebellum. HeLa cell lysate. SH-SY5Y cells.

**Optimal dilution for a specific application should be determined.*

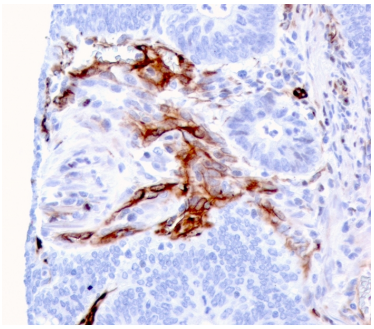
Product Images for Nestin (Cancer Stem Cell Marker) Antibody



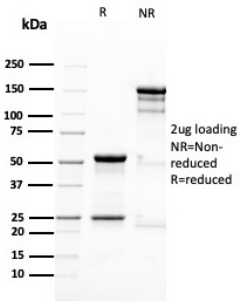
Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).



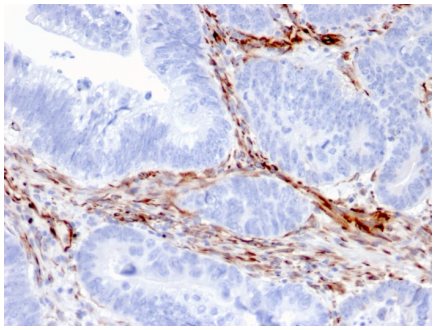
Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained withNestin Mouse Monoclonal Antibody (NES/2911).



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



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with NestinMouse Monoclonal Antibody (NES/2911).

Specificity & Comments

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.

Supplied As

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.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Neural Stem Cells, Stem Cell Differentiation

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.