

36-2046: Anti-Nestin (Cancer Stem Cell Marker) Monoclonal Antibody (Clone: NES/2911)

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| Clonality : | Monoclonal |
| Clone Name : | NES/2911 |
| Application : | IHC |
| Reactivity : | Human |
| Gene : | NES |
| Gene ID : | 10763 |
| Uniprot ID : | P48681 |
| Alternative Name : | ESTM 46; FLJ21841; Intermediate filament protein; Nbla00170; nes |
| Isotype : | Mouse IgG |
| Immunogen Information : | Recombinant human NES protein fragment around aa 698-844 (exact sequence is proprietary) |

Description

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.

Product Info

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| Amount : | 20 µg / 100 µg |
| Content : | 200µg/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 condition : | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. |

Application Note

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes 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);

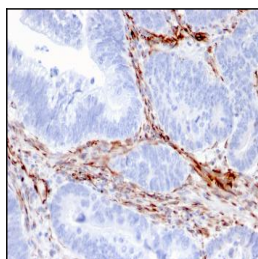


Fig.1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Nestin Mouse Monoclonal Antibody (NES/2911).

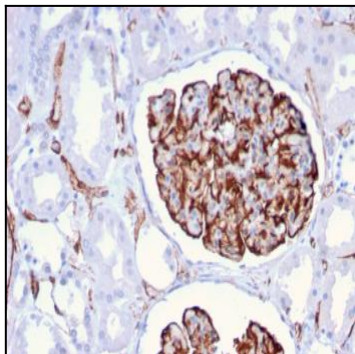


Fig. 2: Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).

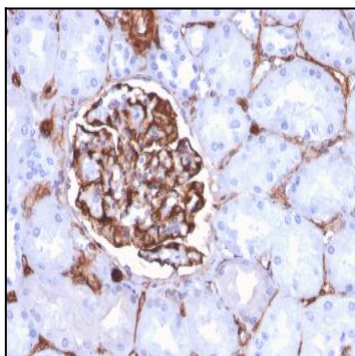


Fig. 3: Formalin-fixed, paraffin-embedded human Kidney stained with Nestin Mouse Monoclonal Antibody (NES/2911).

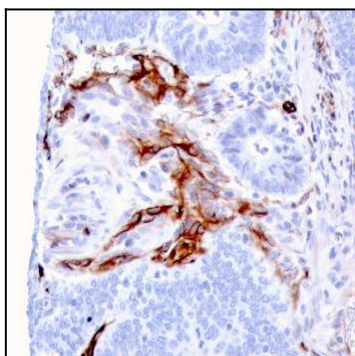


Fig. 4: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Nestin Mouse Monoclonal Antibody (NES/2911).

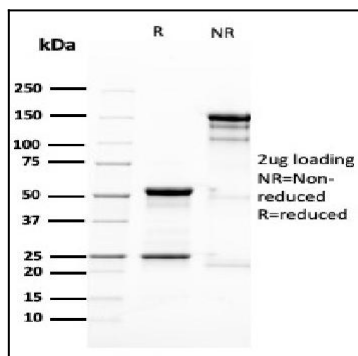


Fig. 5: SDS-PAGE Analysis Purified Nestin Mouse Monoclonal Antibody (NES/2911). Confirmation of Purity and Integrity of Antibody.