nestin (10c2): sc-23927

**BACKGROUND**

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 α-internexin and forms heterodimer-coil-molecules which then further assemble into 10 nm 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 dermatal cells and by myoblasts during the earliest stages of myogenesis.

**CHROMOSOMAL LOCATION**

Genetic locus: NES (human) mapping to 1q23.1; Nes (mouse) mapping to 3F1.

**SOURCE**

nestin (10c2) is a mouse monoclonal antibody raised against a 150 amino acid epitope mapping near the C-terminus of human nestin.

**PRODUCT**

Each vial contains 200 µg IgG κ, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**


Molecular Weight of nestin: 190-200 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409.

**DATA**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


**STORAGE**

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.