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Nestin (Rat-401) Mouse mAb (Alexa Fluor® 555 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-F	R	Endogenous	Mouse IgG1	#P21263	25491
Product Usage Information	Application			Dilution	
	Immunofluorescence (Frozen)			1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	Nestin (Rat-401) Mouse mAb (Alexa Fluor® 555 Conjugate) recognizes endogenous levels of rat nestin protein.				
Source / Purification Description	Monoclonal antibody is produced by immunizing animals with E15 rat spinal cord.				
Background	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for direct immunofluorescent analysis in rat brain.				
Background References	<p>Nestin is an intermediate filament family member protein that is structurally related to the neurofilament proteins (1). It is highly expressed in the developing brain, where it may help to regulate cell structure and intracellular processes required for neural cell division and migration (1,2). Upon maturation of the brain, nestin expression is quickly downregulated and replaced by expression of the neurofilament proteins (2). Because nestin is expressed in both mature and precursor neuronal and glial cells, as well as in the developing brain and in the brain and spinal cord following damage, nestin is widely accepted as a marker of neural stem/progenitor cells (3). Research studies have shown that expression of nestin is also found in cells from various nervous system tumors, including gliomas, neuroblastomas, and astrocytomas, and it is generally accepted as a marker for neural cancer stem cells (3). However, nestin expression has also been observed in astrocytes, retina, cardiac muscle, pancreas, and other tissues (3). Therefore, the acceptance of nestin as an exclusive marker of neural stem/progenitor cells is not unanimous.</p> <ol style="list-style-type: none"> 1. Michalczyk, K. and Ziman, M. (2005) <i>Histol Histopathol</i> 20, 665-71. 2. Giliarov, A.V. (2007) <i>Morfologija</i> 131, 85-90. 3. Gilyarov, A.V. (2008) <i>Neurosci Behav Physiol</i> 38, 165-9. 				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key **IF-F:** Immunofluorescence (Frozen)

Cross-Reactivity Key **R:** Rat

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