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## Nestin (Rat-401) Mouse mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)

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Applications: IF-F	<b>Reactivity:</b> R	<b>Sensitivity:</b> Endogenous	Source/Isotype: Mouse IgG1	UniProt ID: #P21263	Entrez-Gene Id: 25491		
Product Usage Information		Application Immunofluorescence (Frozen)			<b>Dilution</b> 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/Sens	itivity	Nestin (Rat-401) Mouse mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) recognizes endogenous levels of nestin protein.					
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with E15 rat spinal cord.					
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dye and tested in-house for immunofluorescent analysis in rat brain. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Nestin (Rat-401) Mouse mAb #4760.					
Background		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.					
Background Ref	erences	1. Michalczyk, K. and Ziman, M. (2005) <i>Histol Histopathol</i> 20, 665-71. 2. Giliarov, A.V. (2007) <i>Morfologiia</i> 131, 85-90. 3. Gilyarov, A.V. (2008) <i>Neurosci Behav Physiol</i> 38, 165-9.					
Species Reactivi	ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Ke	y	IF-F: Immunofluorescence (Frozen)					
Cross-Reactivity	v Key	R: Rat					
Trademarks and	l Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					
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